

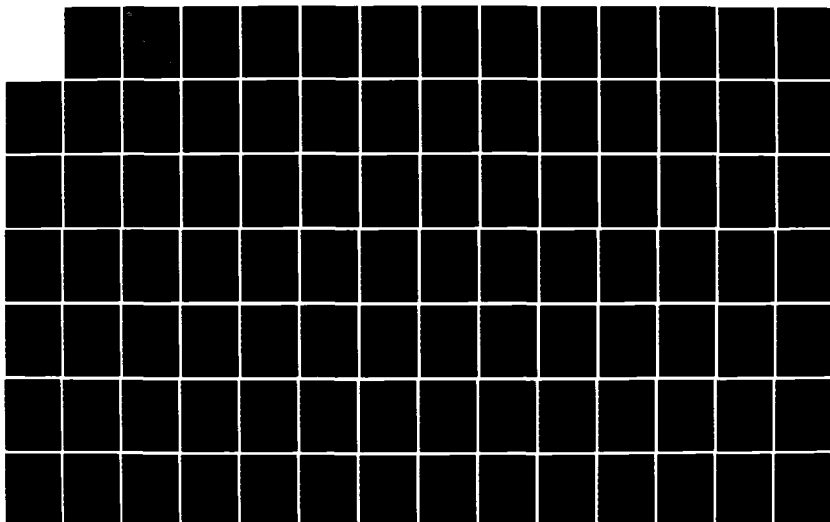
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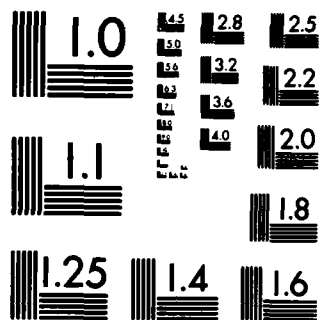
PERFORMANCE MONITORING SYSTEM: SUMMARY OF LOCK
STATISTICS FOR JANUARY-MARCH 1983(U) ARMY ENGINEER INST
FOR WATER RESOURCES FORT BELVOIR VA M V FLEMING ET AL.
MAY 84 IWR-84-SR-3 F/G 13/2

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Performance Monitoring System:

Summary of Lock Statistics for January - March 1983

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May 1984

Summary Report 84-SR-3
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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) lock Performance Monitoring System PMS statistics <i>Army Corps of Engineers</i>		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Lock Performance Monitoring data are collected at Corps locks by lock operators from observation and information provided by waterway operator. This quarterly summary is an overview of the collected statistics. <i>AS</i>		

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**PERFORMANCE MONITORING SYSTEM
SUMMARY OF LOCK STATISTICS
JANUARY 1983 - MARCH 1983**

Marilyn V. Fleming

and

Kevin Alexander

Water Resources Support Center
Institute for Water Resources
Casey Building
Ft. Belvoir, VA 22060

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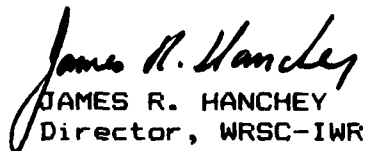


PREFACE

This report is a product of the Navigation Data Management and Analysis Branch of the U. S. Army Engineer Institute for Water Resources (WRSC-IWR). The information is compiled from statistics collected at the Corps locks in support of the lock Performance Monitoring System (PMS).

The study is managed by Mrs. Marilyn V. Fleming under the supervision of Mr. Francis M. Sharp, Chief of the WRSC-IWR Navigation Data Management and Analysis Branch, and Dr. Lloyd G. Antle, Chief of the WRSC-IWR Navigation Division. The Office of the Chief of Engineers (OCE) sponsors are Mr. Henry W. Campbell Jr., DAEN-CWO-M, and Mr. Robert M. Daniel, DAEN-CWP-G.

Requests to update or change the distribution, comments and questions can be directed to Frank Sharp (202-355-2240 or FTS 385-2240) or Marilyn Fleming at the same telephone number. The information is produced and distributed quarterly.


JAMES R. HANCHEY
Director, WRSC-IWR

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Introduction

The lock Performance Monitoring System (PMS) is a part of the Inland Navigation Systems Analysis (INSA) program and encompasses the collection, editing, maintenance and analysis of data collected at all Corps-owned and operated locks. The data have been collected since March of 1975 and consist of information describing the traffic through the locks as well as the physical aspects of lockages. The quarterly summary of selected statistics presented in the appendix provides an overview of the traffic and operation at each lock. The quarterly report is presented as a set of three tables for each Corps District. Information reported for each lock and chamber includes:

1. A listing providing the name of the lock, the river on which the lock is and its dimensions. In those cases where there is no quarterly information, this table will be the only display for the district.

2. A table providing, by direction and total, the number of tows, commercial vessels other than tows, recreational vessels, barges (empty and loaded), commercial lockages, recreational lockages and tonnage.

3. A summary of approach, entry, chambering and exit times (maximum, minimum and average) and the number of delays, total delay time, maximum delay time and average delay time.

Although the summary information will be computed and displayed for chambers at which there is data for only one or two months of the quarter, the fact is noted on the report.

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
02	NEW ORLEANS	LOWER MISS VALLEY	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
GULF INTRACOASTAL	01-PORT ALLEN LOCK	1202/0084/15.0
	02-BAYOU SORREL LOCK	0800/0056/16.0
	03-INNER HRBR NAVIGATION CANL LK	0626/0074/40.0
	04-ALGERS LOCK	0760/0075/15.0
	05-HARVEY LOCK	0426/0075/14.0
	06-BAYOU BOEUF LOCK	1148/0075/15.0
	07-VERMILLION LOCK	1195/0056/14.0
	08-CALCASIEU LOCK	1194/0075/15.0
ATCHAFALAYA RIVER	11-BERNICK LOCK	0300/0045/11.0
GULF INTRACOASTAL	21-SCHOONER BAYOU CONTROL STRUCT	9999/0075/14.0
	22-CATFISH POINT CONTROL STRUCT	9999/0056/16.0
	23-CALCASIEU SALT WATER BARRIER	9999/0056/15.0
BAYOU TECHE	31-KEYSTONE LOCK	0160/0036/12.0
FRESHWATER BAYOU	41-FRESHWATER BAYOU LOCK	0590/0084/15.0
OLD RIVER	51-OLD RIVER LOCK	1200/0075/15.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
B3	ST. LOUIS	LOWER MISS VALLEY	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
KASKASKIA RIVER	01-KASKASKIA RIVER NAVIGATION LK	0610/0084/12.0
MISSISSIPPI RIVER	24-LOCK & DAM 24	0610/0110/12.0
	25-LOCK & DAM 25	0610/0110/12.0
	26-LOCK & DAM 26	0610/0110/12.0
	26-LOCK & DAM 26 AUX 1	0380/0110/12.0
	27-CHAIN OF ROCKS LOCK & DAM 27	1210/0110/12.0
	27-CHAIN OF ROCKS LK & DM 27 AX1	0610/0110/12.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

ERDC B3	DISTRICT NAME ST. LOUIS	DIVISION NAME LOWER MISS VALLEY			MONTHS REPORTED							
					1/83	2/83	3/83					
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
KASKASKIA RIVER												
KASKASKIA RIVER NAVIGATION LK	***											
UPBOUND STATISTICS	132	41	63	236	475	1	476	195	29	0	224	0
DOWNBOUND STATISTICS	128	40	70	238	0	472	472	200	30	0	230	706
TOTALS	260	81	133	474	475	473	948	395	59	0	454	706
MISSISSIPPI RIVER												
LOCK & DAM 24	***											
UPBOUND STATISTICS	243	4	21	268	2334	343	2677	418	4	8	430	538
DOWNBOUND STATISTICS	182	5	10	197	69	1377	1446	285	4	5	294	1958
TOTALS	425	9	31	465	2403	1720	4123	703	8	13	724	2496
LOCK & DAM 25	***											
UPBOUND STATISTICS	240	6	45	291	2350	355	2705	441	6	6	453	563
DOWNBOUND STATISTICS	171	9	40	220	70	1394	1464	280	6	4	290	1986
TOTALS	411	15	85	511	2420	1749	4169	721	12	10	743	2549
LOCK & DAM 26	***											
UPBOUND STATISTICS	631	2	9	642	6205	1399	7604	1129	1	3	1133	2282
DOWNBOUND STATISTICS	662	0	11	673	420	6961	7381	1166	0	6	1172	10107
TOTALS	1293	2	20	1315	6625	8360	14985	2295	1	9	2305	12389
LOCK & DAM 26 AUX 1	***											
UPBOUND STATISTICS	268	2	78	348	704	262	966	517	1	12	530	462
DOWNBOUND STATISTICS	230	5	85	320	195	668	863	484	3	7	494	1040
TOTALS	498	7	163	668	899	930	1829	1001	4	19	1024	1502
CHAIN OF ROCKS LOCK & DAM 27	***											
UPBOUND STATISTICS	913	7	106	1026	7281	1691	8972	934	2	7	943	2913
DOWNBOUND STATISTICS	901	3	90	994	578	8021	8599	933	0	10	943	11804
TOTALS	1814	10	196	2020	7859	9712	17571	1867	2	17	1886	14717

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC B3	DISTRICT NAME ST. LOUIS	DIVISION NAME LOWER MISS VALLEY		MONTHS REPORTED 1/83 2/83 3/83		
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RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
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(NAV, OPN, ETC)

MISSISSIPPI RIVER

CHAIN OF ROCKS LK & DM 27 AX1	***											
UPBOUND STATISTICS	271	9	126	406	590	153	743	374	5	9	388	232
DOWNBOUND STATISTICS	280	15	126	421	169	570	739	380	8	7	395	842
TOTALS	551	24	252	827	759	723	1482	754	13	16	783	1074

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED															
83	ST. LOUIS	LOWER MISS VALLEY	1/83				2/83				3/83							

			LOCK PROCESSING TIME (MIN.)															
			APPROACH			ENTRY			CHAMBER			EXIT			:	DELAYED DELAY	DELAY	DELAY
			MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:
															:	VESSELS TIME	AVG	MAX
															:	(IN MINUTES)		

KASKASKIA RIVER																		
KASKASKIA RIVER NAVIGATION L 1 6 28 1 4 21 5 8 20 1 4 15 : 13 344 26.5 40																		
MISSISSIPPI RIVER																		
LOCK & DAM 24 1 12 430 1 9 142 5 8 67 1 16 240 : 172 14628 85.0 776																		
LOCK & DAM 25 1 9 89 1 8 87 3 7 39 1 13 70 : 459 21164 46.1 725																		
LOCK & DAM 26 1 5 109 1 9 160 4 11 82 1 12 155 : 1305 681941 522.6 4875																		
LOCK & DAM 26 AUX 1 1 7 169 1 7 243 4 11 189 1 11 106 : 647 130801 202.2 3468																		
CHAIN OF ROCKS LOCK & DAM 27 1 10 49 1 7 30 3 11 45 1 7 31 : 1374 72237 52.6 505																		
CHAIN OF ROCKS LK & DM 27 AX 1 7 48 1 3 43 5 10 34 1 3 39 : 285 6141 21.5 203																		

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
84	VICKSBURG	LOWER MISS VALLEY	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
OUCHITA/BLACK RIV	01-JONESVILLE LOCK & DAM	0655/0084/23.4
	02-COLUMBIA LOCK & DAM	0655/0084/27.4
	06-LOCK & DAM 6	0300/0055/17.4
	08-LOCK & DAM 8	0300/0055/19.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC B4	DISTRICT NAME VICKSBURG	DIVISION NAME LOWER MISS VALLEY	MONTHS REPORTED			
			1/83	2/83	3/83	

RIVER/LOCK NAME	TOWS	VESSL		VESSL TOTAL	BARGS		BARGS TOTAL	LOCKGS COMMER	LCKGES		LCKGES TOTAL	TONNAGE (KTONS)
		RECRTN	OTHER		EMPTY	FULL			RECRTN	OTHER		

(NAV, OPM, ETC)

OUCHITA/BLACK RIV

JONESVILLE LOCK & DAM	***											
UPBOUND STATISTICS	24	0	5	29	47	20	67	5	0	24	29	38
DOWNBOUND STATISTICS	20	0	3	23	7	46	53	4	0	19	23	78
TOTALS	44	0	8	52	54	66	120	9	0	43	52	116

COLUMBIA LOCK & DAM	***											
UPBOUND STATISTICS	16	0	1	17	18	10	28	9	0	9	18	20
DOWNBOUND STATISTICS	14	0	0	14	8	17	25	7	0	8	15	35
TOTALS	30	0	1	31	26	27	53	16	0	17	33	55

LOCK & DAM 6 NO DATA RECORDED FOR THIS LOCK

LOCK & DAM 8	*** ONLY THIRD MONTH REPORTED											
UPBOUND STATISTICS	0	0	0	0	0	0	0	0	0	1	1	0
DOWNBOUND STATISTICS	0	0	0	0	0	0	0	0	0	2	2	0
TOTALS	0	0	0	0	0	0	0	0	0	3	3	0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC B4	DISTRICT NAME VICKSBURG	DIVISION NAME LOWER MISS VALLEY	1/83	MONTHS REPORTED 2/83	3/83
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LOCK PROCESSING TIME (MIN.)												:	DELAYED DELAY	DELAY	DELAY
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS TIME	AVG	MAX
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	:			

DUCHITA/BLACK RIV

JONESVILLE LOCK & DAM	2	5	30	1	1	10	1	2	14	1	5	11 :	0	0	0.0	0
COLUMBIA LOCK & DAM	1	5	13	1	4	10	1	11	30	1	6	21 :	3	23	7.7	15
LOCK & DAM 6	NO DATA RECORDED FOR THIS LOCK															
LOCK & DAM 8	2	2	3	2	2	2	10	10	10	3	3	5 :	3	16	5.3	10

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
E3	NEW YORK	NORTH ATLANTIC	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
HUDSON RIVER	01-TROY LOCK & DAM	0493/0044/15.0

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
E4	NORFOLK	NORTH ATLANTIC	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
DISMAL SWAMP	01-DEEP CREEK LOCK	0300/0052/12.0
	02-SOUTH MILLS LOCK	0300/0052/12.0
ATLANT INTRCOASTAL	11-GREAT BRIDGE GUARD LOCK	0600/0072/16.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC E4	DISTRICT NAME NORFOLK	DIVISION NAME NORTH ATLANTIC	MONTHS REPORTED										
			1/83			2/83			3/83				
RIVER/LOCK NAME		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
DISMAL SWAMP													
DEEP CREEK LOCK		***											
UPBOUND STATISTICS		1	9	0	10	0	1	1	3	7	4	14	0
DOWNBOUND STATISTICS		1	16	1	18	0	1	1	4	14	4	22	0
TOTALS		2	25	1	28	0	2	2	7	21	8	36	0
SOUTH MILLS LOCK		***											
UPBOUND STATISTICS		1	13	1	15	0	1	1	4	12	1	17	0
DOWNBOUND STATISTICS		1	10	0	11	0	1	1	2	10	0	12	0
TOTALS		2	23	1	26	0	2	2	6	22	1	29	0
ATLANT INTRCOASTAL													
GREAT BRIDGE GUARD LOCK		***											
UPBOUND STATISTICS		187	99	80	366	141	123	264	253	76	23	352	129
DOWNBOUND STATISTICS		179	95	83	357	155	135	290	244	73	18	335	100
TOTALS		366	194	163	723	296	258	554	497	149	41	687	229

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED	
E4	NORFOLK	NORTH ATLANTIC	1/83	2/83 3/83

LOCK PROCESSING TIME (MIN.)												: DELAYED DELAY		DELAY		DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			: VESSELS TIME		AVG		MAX	
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	:					

(IN MINUTES)

DISMAL SWAMP

DEEP CREEK LOCK	2	3	6	2	4	11	2	7	30	3	5	15	:	36	125	3.5	5
SOUTH MILLS LOCK	2	2	3	2	2	4	10	11	12	2	3	4	:	29	66	2.3	10

ATLANT INTRACOASTAL

GREAT BRIDGE GUARD LOCK	1	3	20	2	4	22	1	5	35	2	4	30	:	688	2352	3.4	45
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PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F1	BUFFALO	NORTH CENTRAL	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
BLK ROCK CH/TONAWANDA	01-BLACK ROCK LOCK	0650/0070/21.7

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED			
F1	BUFFALO	NORTH CENTRAL	1/83	2/83	3/83	

RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)

(NAV, OPN, ETC)

BLK ROCK CH/TONAWANDA

BLACK ROCK LOCK

*** ONLY THIRD MONTH REPORTED

UPBOUND STATISTICS	1	0	1	2	2	0	2	3	0	3	6	0
DOWNBOUND STATISTICS	1	0	0	1	0	1	1	1	0	3	4	7
TOTALS	2	0	1	3	2	1	3	4	0	6	10	7

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F1	BUFFALO	NORTH CENTRAL	1/83	2/83	3/83

APPROACH		LOCK PROCESSING TIME (MIN.)				: DELAYED DELAY		DELAY	DELAY
		ENTRY		CHAMBER		: VESSELS TIME		AVG	MAX
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	(IN MINUTES)

BLK ROCK CH/TOMAMANDA

BLACK ROCK LOCK	1	2	8	1	4	12	9	13	20	1	4	8	:	10	94	9.4	39
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PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F3	DETROIT	NORTH CENTRAL	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ST MARYS RIVER	01-MACARTHUR LOCK	0800/0080/31.0
	02-NEW POE LOCK	1200/0110/32.0
	03-DAVIS LOCK00	1350/0080/31.0
	04-SABIN LOCK00	1350/0080/31.0
THE INLAND ROUTE	11-ALANSON LOCK	0000/0000/****
FOX RIVER	11-DE PERE LOCK & DAM	0146/0036/ 6.0
	12-LITTLE KAUKAUMA LOCK & DAM	0146/0036/ 6.0
	13-RAPIDE CROCHE LOCK & DAM	0146/0036/ 6.0
	21-KAUKAUMA LOCK 1	0144/0035/ 6.0
	22-KAUKAUMA LOCK 2	0144/0035/ 6.0
	23-KAUKAUMA LOCK 3	0144/0037/ 6.0
	24-KAUKAUMA LOCK 4	0144/0037/ 6.0
	25-KAUKAUMA LOCK 5	0144/0036/ 6.0
	32-LITTLE CHUTE LOCK 2	0142/0035/ 6.0
	33-LITTLE CHUTE COMB LOCKS UPPER	0144/0037/ 6.0
	34-LITTLE CHUTE COMB LOCKS LOWER	0146/0036/ 6.0
	35-CEDARS LOCK & DAM	0144/0035/ 6.0
	41-APPLETON LOCK 1	0145/0035/ 6.0
	42-APPLETON LOCK 2	0145/0035/ 6.0
	43-APPLETON LOCK 3	0144/0035/ 6.0
	44-APPLETON LOCK 4	0144/0035/ 6.0
	51-MENASHA LOCK & DAM	0144/0035/ 6.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC F3	DISTRICT NAME DETROIT	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED			
			1/83	2/83	3/83	

RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)

(NAV, OPN, ETC)

ST MARYS RIVER

MACARTHUR LOCK

NO DATA RECORDED FOR THIS LOCK

WEN POE LOCK

*** ONLY THIRD MONTH REPORTED

UPBOUND STATISTICS	6	0	0	6	4	2	6	7	0	4	11	64
DOWNBOUND STATISTICS	1	0	0	1	0	1	1	2	0	5	7	26
TOTALS	7	0	0	7	4	3	7	9	0	9	18	90

DAVIS LOCK00

NO DATA RECORDED FOR THIS LOCK

SABIN LOCK00

NO DATA RECORDED FOR THIS LOCK

THE INLAND ROUTE

ALANSON LOCK

NO DATA RECORDED FOR THIS LOCK

FOX RIVER

DE PERE LOCK & DAM

NO DATA RECORDED FOR THIS LOCK

LITTLE KAUKAUNA LOCK & DAM

NO DATA RECORDED FOR THIS LOCK

RAPIDE CROCHE LOCK & DAM

NO DATA RECORDED FOR THIS LOCK

KAUKAUNA LOCK 1

NO DATA RECORDED FOR THIS LOCK

KAUKAUNA LOCK 2

NO DATA RECORDED FOR THIS LOCK

KAUKAUNA LOCK 3

NO DATA RECORDED FOR THIS LOCK

KAUKAUNA LOCK 4

NO DATA RECORDED FOR THIS LOCK

KAUKAUNA LOCK 5

NO DATA RECORDED FOR THIS LOCK

LITTLE CHUTE LOCK 2

NO DATA RECORDED FOR THIS LOCK

LITTLE CHUTE COMB LOCKS UPPER NO DATA RECORDED FOR THIS LOCK

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

ERDC F3	DISTRICT NAME DETROIT	DIVISION NAME NORTH CENTRAL		MONTHS REPORTED 1/83 2/83 3/83		
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RIVER/LOCK NAME	TOWS	VESSEL	VESSEL	VESSEL	BARGE	BARGE	BARGE	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL	

(NAV, OPN, ETC)

FOX RIVER

LITTLE CHUTE COMB LOCKS LOWER	NO DATA RECORDED FOR THIS LOCK
CEDARS LOCK & DAM	NO DATA RECORDED FOR THIS LOCK
APPLETON LOCK 1	NO DATA RECORDED FOR THIS LOCK
APPLETON LOCK 2	NO DATA RECORDED FOR THIS LOCK
APPLETON LOCK 3	NO DATA RECORDED FOR THIS LOCK
APPLETON LOCK 4	NO DATA RECORDED FOR THIS LOCK
MENASHA LOCK & DAM	NO DATA RECORDED FOR THIS LOCK

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F3	DETROIT	NORTH CENTRAL	1/83	2/83	3/83

APPROACH		LOCK PROCESSING TIME (MIN.)				: DELAYED DELAY		DELAY	DELAY
		ENTRY	CHAMBER		EXIT	: VESSELS TIME		AVG	MAX
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	(IN MINUTES)

ST MARYS RIVER

MACARTHUR LOCK	NO DATA RECORDED FOR THIS LOCK																
NEW POE LOCK	2	8	14	1	4	18	12	16	25	1	5	17	:	18	198	11.0	70
DAVIS LOCK00	NO DATA RECORDED FOR THIS LOCK																
SABIN LOCK00	NO DATA RECORDED FOR THIS LOCK																

THE INLAND ROUTE

ALANSON LOCK	NO DATA RECORDED FOR THIS LOCK									
--------------	--------------------------------	--	--	--	--	--	--	--	--	--

FOX RIVER

DE PERE LOCK & DAM	NO DATA RECORDED FOR THIS LOCK									
LITTLE KAUKAUNA LOCK & DAM	NO DATA RECORDED FOR THIS LOCK									
RAPIDE CROCHE LOCK & DAM	NO DATA RECORDED FOR THIS LOCK									
KAUKAUNA LOCK 1	NO DATA RECORDED FOR THIS LOCK									
KAUKAUNA LOCK 2	NO DATA RECORDED FOR THIS LOCK									
KAUKAUNA LOCK 3	NO DATA RECORDED FOR THIS LOCK									
KAUKAUNA LOCK 4	NO DATA RECORDED FOR THIS LOCK									
KAUKAUNA LOCK 5	NO DATA RECORDED FOR THIS LOCK									
LITTLE CHUTE LOCK 2	NO DATA RECORDED FOR THIS LOCK									
LITTLE CHUTE COMB LOCKS UPPER	NO DATA RECORDED FOR THIS LOCK									

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC F3	DISTRICT NAME DETROIT	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED																																																											
			1/83	2/83	3/83																																																									
<table border="1"> <thead> <tr> <th colspan="10">LOCK PROCESSING TIME (MIN.)</th> <th colspan="2">: DELAYED DELAY</th> <th>DELAY</th> <th>DELAY</th> </tr> <tr> <th colspan="3">APPROACH</th> <th colspan="3">ENTRY</th> <th colspan="3">CHAMBER</th> <th colspan="2">EXIT</th> <th colspan="2">: VESSELS TIME</th> <th>AVG</th> <th>MAX</th> </tr> <tr> <th>MIN</th> <th>AVG</th> <th>MAX</th> <th>MIN</th> <th>AVG</th> <th>MAX</th> <th>MIN</th> <th>AVG</th> <th>MAX</th> <th>MIN</th> <th>AVG</th> <th>MAX</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td colspan="14">(IN MINUTES)</td> </tr> </tbody> </table>						LOCK PROCESSING TIME (MIN.)										: DELAYED DELAY		DELAY	DELAY	APPROACH			ENTRY			CHAMBER			EXIT		: VESSELS TIME		AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX			(IN MINUTES)													
LOCK PROCESSING TIME (MIN.)										: DELAYED DELAY		DELAY	DELAY																																																	
APPROACH			ENTRY			CHAMBER			EXIT		: VESSELS TIME		AVG	MAX																																																
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX																																																			
(IN MINUTES)																																																														

FOX RIVER

LITTLE CUTE COMB LOCKS LOWER NO DATA RECORDED FOR THIS LOCK

CEDARS LOCK & DAM NO DATA RECORDED FOR THIS LOCK

APPLETON LOCK 1 NO DATA RECORDED FOR THIS LOCK

APPLETON LOCK 2 NO DATA RECORDED FOR THIS LOCK

APPLETON LOCK 3 NO DATA RECORDED FOR THIS LOCK

APPLETON LOCK 4 NO DATA RECORDED FOR THIS LOCK

MENASHA LOCK & DAM NO DATA RECORDED FOR THIS LOCK

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F4	ROCK ISLAND	ZN\h8q'TRAL	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ILLINOIS	01-THOMAS J O'BRIEN	1200/0110/12.0
	02-LOCKPORT LOCK	1200/0110/12.0
	03-BRANDON ROAD LOCK & DAM	1200/0110/12.0
	04-DRESDEN ISLAND LOCK & DAM	1200/0110/12.0
	05-MARSIELLES LOCK & DAM	1200/0110/12.0
	06-STARVED ROCK LOCK & DAM	1200/0110/12.0
	07-PEORIA LOCK & DAM	1200/0110/12.0
	08-LAGRANGE LOCK & DAM	1200/0110/12.0
MISSISSIPPI RIVER	11-LOCK & DAM 11	1350/0110/10.0
	12-LOCK & DAM 12	1350/0110/10.0
	13-LOCK & DAM 13	1350/0110/10.0
	14-LOCK & DAM 14	1350/0110/10.0
	14-LOCK & DAM 14 AUXILIARY 1	1350/0110/10.0
	15-LOCK & DAM 15	1350/0110/10.0
	15-LOCK & DAM 15 AUXILIARY 1	1350/0110/10.0
	16-LOCK & DAM 16	1350/0110/10.0
	17-LOCK & DAM 17	1350/0110/10.0
	18-LOCK & DAM 18	1350/0110/10.0
	19-LOCK & DAM 19	1350/0110/10.0
	19-LOCK & DAM 19 AUXILIARY 1	1350/0110/10.0
	20-LOCK & DAM 20	1350/0110/10.0
	21-LOCK & DAM 21	1350/0110/10.0
	22-LOCK & DAM 22	1350/0110/10.0

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL					MONTHS REPORTED					
							1/83		2/83		3/83	
RIVER/LOCK NAME	TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGE EMPTY	BARGE FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER (NAV, OPN, ETC)	LCKGES TOTAL	TONNAGE (KTONS)
ILLINOIS												
THOMAS J O'BRIEN	***											
UPBOUND STATISTICS	306	17	73	396	391	303	694	376	12	0	388	457
DOWNBOUND STATISTICS	277	15	86	378	208	441	649	361	8	0	369	706
TOTALS	583	32	159	774	599	744	1343	737	20	0	757	1163
LOCKPORT LOCK	***											
UPBOUND STATISTICS	419	4	70	493	675	1273	1948	508	3	1	512	1911
DOWNBOUND STATISTICS	454	3	48	505	1065	981	2046	515	1	1	517	1731
TOTALS	873	7	118	998	1740	2254	3994	1023	4	2	1029	3642
BRANDON ROAD LOCK & DAM	***											
UPBOUND STATISTICS	425	2	77	504	797	1327	2124	546	1	10	557	2000
DOWNBOUND STATISTICS	442	2	54	498	1038	1053	2091	537	1	12	550	1795
TOTALS	867	4	131	1002	1835	2380	4215	1083	2	22	1107	3795
DRESDEN ISLAND LOCK & DAM	***											
UPBOUND STATISTICS	418	6	22	446	896	1441	2337	530	4	9	543	2167
DOWNBOUND STATISTICS	420	8	26	454	1028	1290	2318	540	7	6	553	2244
TOTALS	838	14	48	900	1924	2731	4655	1070	11	15	1096	4411
MARSELLES LOCK & DAM	***											
UPBOUND STATISTICS	471	3	13	487	1401	1504	2905	631	2	3	636	2381
DOWNBOUND STATISTICS	476	3	25	504	1042	1947	2989	653	2	2	657	3216
TOTALS	947	6	38	991	2443	3451	5894	1284	4	5	1293	5597
STARVED ROCK LOCK & DAM	***											
UPBOUND STATISTICS	487	2	23	512	1653	1513	3166	674	2	6	682	2398
DOWNBOUND STATISTICS	509	4	24	537	1045	2303	3348	710	4	5	719	3700
TOTALS	996	6	47	1049	2698	3816	6514	1384	6	11	1401	6098
PEORIA LOCK & DAM	***											
UPBOUND STATISTICS	567	0	31	598	2887	1737	4624	213	0	477	690	2757
DOWNBOUND STATISTICS	600	2	23	625	1037	4010	5047	225	1	505	731	6098
TOTALS	1167	2	54	1223	3924	5747	9671	438	1	982	1421	8855

[illegible]

LAGRANGE LOCK & DAM	***											
UPBOUND STATISTICS	525	0	20	545	3813	1223	5036	26	0	529	555	2047
DOWNBOUND STATISTICS	573	0	11	584	467	5145	5612	32	0	577	609	7549
TOTALS	1098	0	31	1129	4280	6368	10648	58	0	1106	1164	9596

LOCK & DAM 11												
*** ONLY SECOND AND THIRD MONTHS REPORTED												
UPBOUND STATISTICS	78	2	18	98	729	141	870	149	3	1	153	202
DOWNBOUND STATISTICS	47	1	20	68	22	337	359	80	1	4	85	470
TOTALS	125	3	38	166	751	478	1229	229	4	5	238	672

LOCK & DAM 12												
*** ONLY SECOND AND THIRD MONTHS REPORTED												
UPBOUND STATISTICS	100	14	3	117	901	159	1060	168	14	1	183	230
DOWNBOUND STATISTICS	60	12	6	78	18	444	462	94	10	4	108	625
TOTALS	160	26	9	195	919	603	1522	262	24	5	291	855

LOCK & DAM 13		*** ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS	98	0	4	102	898	157	1055	174	0	3	177	227
DOWNBOUND STATISTICS	60	4	6	70	18	444	462	98	2	4	104	625
TOTALS	158	4	10	172	916	601	1517	272	2	7	281	852

LOCK & DAM 14												
*** ONLY SECOND AND THIRD MONTHS REPORTED												
UPBOUND STATISTICS	127	3	6	136	1194	176	1370	221	3	3	227	260
DOWNBOUND STATISTICS	84	7	7	98	16	618	634	132	4	2	138	802
TOTALS	211	10	13	234	1210	794	2004	353	7	5	365	1062

LOCK & DAM 15	***											
UPBOUND STATISTICS	130	1	24	155	1159	180	1339	240	1	1	242	259
DOWNBOUND STATISTICS	98	2	20	120	33	590	623	148	1	2	151	820
TOTALS	228	3	44	275	1192	770	1962	388	2	3	393	1079

ERO F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL					MONTHS REPORTED						
							1/83	2/83		3/83			
RIVER/LOCK NAME		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
MISSISSIPPI RIVER													
LOCK & DAM 15 AUXILIARY 1		***	ONLY THIRD MONTH REPORTED										
UPBOUND STATISTICS		7	1	10	18	5	8	13	15	0	0	15	9
DOWNBOUND STATISTICS		0	1	8	9	0	0	0	7	1	0	8	0
TOTALS		7	2	18	27	5	8	13	22	1	0	23	9
LOCK & DAM 16		***											
UPBOUND STATISTICS		142	1	10	153	1407	191	1598	259	1	0	260	289
DOWNBOUND STATISTICS		93	3	19	115	31	718	749	154	2	2	158	1004
TOTALS		235	4	29	268	1438	909	2347	413	3	2	418	1295
LOCK & DAM 17		***											
UPBOUND STATISTICS		152	2	5	159	1520	225	1745	274	3	1	278	338
DOWNBOUND STATISTICS		102	1	10	113	29	810	839	164	1	3	168	1135
TOTALS		254	3	15	272	1549	1035	2584	438	4	4	446	1473
LOCK & DAM 18		***											
UPBOUND STATISTICS		157	5	2	164	1616	230	1846	277	8	3	288	346
DOWNBOUND STATISTICS		100	4	8	112	43	838	881	164	6	4	174	1171
TOTALS		257	9	10	276	1659	1068	2727	441	14	7	462	1517
LOCK & DAM 19		***											
UPBOUND STATISTICS		175	1	13	189	1828	231	2059	182	0	4	186	353
DOWNBOUND STATISTICS		106	0	21	127	50	920	970	120	0	2	122	1292
TOTALS		281	1	34	316	1878	1151	3029	302	0	6	308	1645
LOCK & DAM 19 AUXILIARY 1		NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 20		***											
UPBOUND STATISTICS		182	1	32	215	1903	236	2139	337	1	6	344	364
DOWNBOUND STATISTICS		123	0	30	153	50	997	1047	215	0	3	218	1404
TOTALS		305	1	62	368	1953	1233	3186	552	1	9	562	1768
LOCK & DAM 21		***											
UPBOUND STATISTICS		224	3	15	242	2124	285	2409	395	3	6	404	437
DOWNBOUND STATISTICS		156	1	17	174	35	1194	1229	256	1	6	263	1675
TOTALS		380	4	32	416	2159	1479	3638	651	4	12	667	2112

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F4	ROCK ISLAND	NORTH CENTRAL	1/83	2/83	3/83

RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TOWNS (KTONS)

(NAV, OPN, ETC)

MISSISSIPPI RIVER

LOCK & DAM 22	***											
UPBOUND STATISTICS	219	2	5	226	2165	286	2451	379	1	6	386	436
DOWNBOUND STATISTICS	149	2	8	159	33	1248	1281	248	1	7	256	1789
TOTALS	368	4	13	385	2198	1534	3732	627	2	13	642	2225

EROC F4	DISTRICT NAME			DIVISION NAME									MONTHS REPORTED													
	ROCK ISLAND			NORTH CENTRAL									1/83			2/83			3/83							
				LOCK PROCESSING TIME (MIN.)												DELAYED DELAY			DELAY			DELAY				
APPROACH			ENTRY			CHAMBER			EXIT						VESSELS			TIME			AVG			MAX		
MIN AVG MAX			MIN AVG MAX			MIN AVG MAX			MIN AVG MAX			MIN AVG MAX														
ILLINOIS																										
THOMAS J O'BRIEN	1	3	28	1	3	20	1	12	28	1	3	26	:	71	853	12.0	60									
LOCKPORT LOCK	1	9	82	1	9	70	2	23	85	1	10	360	:	663	39504	59.6	434									
BRANDON ROAD LOCK & DAM	1	10	65	1	8	48	5	18	53	1	11	67	:	749	42011	56.1	758									
DRESDEN ISLAND LOCK & DAM	1	8	52	1	8	41	2	19	55	1	11	82	:	602	45898	76.2	759									
MARSELLES LOCK & DAM	1	10	70	1	8	48	4	18	41	1	15	98	:	624	123160	197.4	1717									
STARVED ROCK LOCK & DAM	1	7	67	1	8	66	3	14	44	1	12	72	:	507	53032	104.6	666									
PEORIA LOCK & DAM	1	3	68	1	5	41	1	4	40	1	9	80	:	771	47398	61.5	1445									
LAGRANGE LOCK & DAM	1	1	52	1	1	29	1	1	28	1	2	61	:	623	18188	29.2	1440									
MISSISSIPPI RIVER																										
LOCK & DAM 11	1	8	80	1	11	176	3	9	121	1	13	90	:	60	45901	765.0	40320									
LOCK & DAM 12	1	8	54	1	6	23	1	6	25	1	11	45	:	49	3696	75.4	335									
LOCK & DAM 13	1	7	71	1	7	66	1	6	34	1	13	42	:	56	5689	101.6	1440									
LOCK & DAM 14	1	7	73	1	7	43	4	7	28	1	14	139	:	93	11506	123.7	552									
LOCK & DAM 14 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																									
LOCK & DAM 15	1	7	86	1	7	41	2	8	438	1	13	52	:	113	15720	139.1	2018									
LOCK & DAM 15 AUXILIARY 1	1	3	16	1	3	16	2	7	16	1	4	27	:	3	44	14.7	36									

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED		
			1/83	2/83	3/83

LOCK PROCESSING TIME (MIN.)												: DELAYED DELAY		DELAY		DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			: VESSELS TIME		AVG		MAX	
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX

MISSISSIPPI RIVER

LOCK & DAM 16	1	8	75	1	8	55	2	6	43	1	16	115	:	127	185720	1462.4	38880
LOCK & DAM 17	1	10	92	1	7	37	2	8	19	1	13	40	:	141	82944	588.3	4780
LOCK & DAM 18	1	10	157	1	8	87	2	5	20	1	15	91	:	135	15687	116.2	30
LOCK & DAM 19	1	16	61	1	6	32	9	16	31	1	10	388	:	140	30324	216.6	939
LOCK & DAM 19 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																
LOCK & DAM 20	1	9	438	1	8	37	2	6	81	1	15	76	:	124	11813	95.3	887
LOCK & DAM 21	1	10	58	1	8	37	1	5	127	1	14	75	:	134	9779	73.0	278
LOCK & DAM 22	1	15	449	1	10	430	2	6	158	1	20	65	:	157	14373	91.5	773

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F5	ST. PAUL	NORTH CENTRAL	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
MISSISSIPPI RIVER	01-LOCK & DAM 1 MAIN CHBR 1	0400/0056/11.0
	01-LOCK & DAM 1 MAIN CHBR 2	0400/0056/11.0
	02-LOCK & DAM 2	0600/0110/11.0
	02-LOCK & DAM 2 AUXILIARY 1	0500/0110/11.0
	03-LOCK & DAM 3	0600/0110/11.0
	04-LOCK & DAM 4	0600/0110/11.0
	05-LOCK & DAM 5	0600/0110/11.0
	06-LOCK & DAM 6	0600/0110/11.0
	07-LOCK & DAM 7	0600/0110/11.0
	08-LOCK & DAM 8	0600/0110/11.0
	09-LOCK & DAM 9	0600/0110/11.0
	10-LOCK & DAM 10	0600/0110/11.0
	51-ST ANTHONY FALLS UPPER L & D	0400/0056/11.0
	52-ST ANTHONY FALLS LOWER L & D	0400/0056/11.0
	55-LOCK & DAM 5A	0600/0110/11.0

[illegible]

LOCK & DAM 1 MAIN CHBR 1	***	ONLY THIRD MONTH REPORTED										
UPBOUND STATISTICS	16	3	4	23	18	5	23	22	1	2	25	9
DOWNBOUND STATISTICS	10	2	7	19	0	14	14	19	0	2	21	19
TOTALS	26	5	11	42	18	19	37	41	1	4	46	28
LOCK & DAM 1 MAIN CHBR 2	***	ONLY THIRD MONTH REPORTED										
UPBOUND STATISTICS	0	0	0	0	0	0	0	0	0	0	0	0
DOWNBOUND STATISTICS	0	0	1	1	0	0	0	1	0	0	1	0
TOTALS	0	0	1	1	0	0	0	1	0	0	1	0
LOCK & DAM 2	***	ONLY THIRD MONTH REPORTED										
UPBOUND STATISTICS	55	2	2	59	532	85	617	101	1	1	103	115
DOWNBOUND STATISTICS	45	2	1	48	6	359	365	74	3	1	78	514
TOTALS	100	4	3	107	538	444	982	175	4	2	181	629
LOCK & DAM 2 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 3	***	ONLY THIRD MONTH REPORTED										
UPBOUND STATISTICS	57	21	17	95	539	99	638	109	24	1	134	141
DOWNBOUND STATISTICS	43	15	16	74	6	350	356	68	18	1	87	501
TOTALS	100	36	33	169	545	449	994	177	42	2	221	642
LOCK & DAM 4	***	ONLY THIRD MONTH REPORTED										
UPBOUND STATISTICS	56	8	2	66	577	89	666	98	10	6	114	127
DOWNBOUND STATISTICS	40	8	3	51	6	354	360	66	9	3	78	494
TOTALS	96	16	5	117	583	443	1026	164	19	9	192	621
LOCK & DAM 5	***	ONLY THIRD MONTH REPORTED										
UPBOUND STATISTICS	57	1	3	61	582	90	672	102	1	11	114	128
DOWNBOUND STATISTICS	38	2	2	42	1	338	339	62	3	6	71	468
TOTALS	95	3	5	103	583	428	1011	164	4	17	185	596

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED											
			1/83		2/83		3/83							

RIVER/LOCK NAME	TOMS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGES	LOCKGS	LCKGES	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)	
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL			
(NAV, OPN, ETC)														

MISSISSIPPI RIVER														
LOCK & DAM 6														
	***	ONLY THIRD MONTH REPORTED												
UPBOUND STATISTICS	61	1	4	66	609	100	709	108	1	8	117	142		
DOWNBOUND STATISTICS	40	1	1	42	5	337	342	65	1	6	72	470		
TOTALS	101	2	5	108	614	437	1051	173	2	14	189	612		
LOCK & DAM 7														
	***	ONLY THIRD MONTH REPORTED												
UPBOUND STATISTICS	61	2	9	72	604	107	711	111	3	6	120	152		
DOWNBOUND STATISTICS	40	2	7	49	5	337	342	64	3	6	73	471		
TOTALS	101	4	16	121	609	444	1053	175	6	12	193	623		
LOCK & DAM 8														
	***	ONLY THIRD MONTH REPORTED												
UPBOUND STATISTICS	62	4	2	68	616	105	721	106	6	10	122	154		
DOWNBOUND STATISTICS	38	3	1	42	2	331	333	62	4	7	73	462		
TOTALS	100	7	3	110	618	436	1054	168	10	17	195	616		
LOCK & DAM 9														
	***	ONLY THIRD MONTH REPORTED												
UPBOUND STATISTICS	62	0	1	63	602	119	721	110	0	6	116	164		
DOWNBOUND STATISTICS	38	1	1	40	30	309	339	63	1	4	68	432		
TOTALS	100	1	2	103	632	428	1060	173	1	10	184	596		
LOCK & DAM 10														
	***	ONLY THIRD MONTH REPORTED												
UPBOUND STATISTICS	72	11	2	85	691	110	801	121	17	3	141	160		
DOWNBOUND STATISTICS	47	11	5	63	43	367	410	77	13	4	94	505		
TOTALS	119	22	7	148	734	477	1211	198	30	7	235	665		
ST ANTHONY FALLS UPPER L & D														
	***	ONLY THIRD MONTH REPORTED												
UPBOUND STATISTICS	8	0	0	8	6	4	10	8	0	0	8	7		
DOWNBOUND STATISTICS	3	0	6	9	0	4	4	8	0	0	8	4		
TOTALS	11	0	6	17	6	8	14	16	0	0	16	11		
ST ANTHONY FALLS LOWER L & D														
	***	ONLY THIRD MONTH REPORTED												
UPBOUND STATISTICS	16	0	8	24	18	5	23	21	0	6	27	8		
DOWNBOUND STATISTICS	10	0	14	24	0	14	14	20	0	6	26	19		
TOTALS	26	0	22	48	18	19	37	41	0	12	53	27		

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL		MONTHS REPORTED 1/83 2/83 3/83		
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RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
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(NAV, OPM, ETC)

MISSISSIPPI RIVER

LOCK & DAM 5A	*** ONLY THIRD MONTH REPORTED											
UPBOUND STATISTICS	57	0	10	67	583	90	673	109	0	8	117	130
DOWNBOUND STATISTICS	38	0	11	49	0	338	338	64	0	6	70	467
TOTALS	95	0	21	116	583	428	1011	173	0	14	187	597

EROC F5	DISTRICT NAME ST. PAUL			DIVISION NAME NORTH CENTRAL								MONTHS REPORTED						
												1/83			2/83			3/83
	APPROACH			LOCK ENTRY			PROCESSING TIME (MIN.) CHAMBER			EXIT			DELATED	DELAY	DELAY	DELAY		
	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	VESSLS	TIME	AVG
(IN MINUTES)																		
MISSISSIPPI RIVER																		
LOCK & DAM 1 MAIN CHBR 1	1	3	13	2	4	10	8	11	20	2	4	12	:	19	82	4.3	17	
LOCK & DAM 1 MAIN CHBR 2	3	3	3	4	4	4	10	10	10	15	15	15	:	1	14	14.0	14	
LOCK & DAM 2	1	8	109	1	8	25	4	7	18	1	13	40	:	107	2269	21.2	155	
LOCK & DAM 2 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																	
LOCK & DAM 3	1	8	73	1	6	33	4	5	38	1	13	55	:	147	3419	23.3	185	
LOCK & DAM 4	1	8	67	1	8	26	2	5	38	2	14	57	:	117	3627	31.0	305	
LOCK & DAM 5	1	7	57	1	7	19	2	6	10	1	13	43	:	83	1527	18.4	144	
LOCK & DAM 6	1	10	69	1	8	28	1	5	10	1	13	43	:	115	2732	23.8	251	
LOCK & DAM 7	1	8	53	1	8	23	4	5	10	1	14	48	:	121	2764	22.8	230	
LOCK & DAM 8	1	8	67	1	7	26	5	6	59	1	15	59	:	114	2311	20.3	187	
LOCK & DAM 9	1	8	61	1	7	22	4	5	12	2	14	41	:	99	3030	30.6	521	
LOCK & DAM 10	1	6	47	1	7	65	4	6	16	1	12	49	:	150	3610	24.1	711	
ST ANTHONY FALLS UPPER L & D	1	3	18	1	4	9	8	9	11	1	3	9	:	2	18	9.0	13	
ST ANTHONY FALLS LOWER L & D	1	2	14	1	3	11	5	11	16	1	2	10	:	22	287	13.0	109	
LOCK & DAM 5A	1	7	44	1	6	20	3	5	13	1	12	42	:	75	1869	24.9	229	

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

ERDC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
62	PORTLAND	NORTH PACIFIC	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
COLUMBIA RIVER	01-BONNEVILLE LOCK & DAM	0500/0074/15.0
	02-THE DALLES DAM	0650/0084/15.0
	03-JOHN DAY LOCK & DAM	0650/0084/15.0
WILLAMETTE RIVER	11-WILLAMETTE FALLS LOCKS 1 - 4	0200/0037/ 6.5
	15-WILLAMETTE FALLS GUARD LOCK	0200/0037/ 6.5

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC 62	DISTRICT NAME PORTLAND	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED		
			1/83	2/83	3/83

RIVER/LOCK NAME	TOWS	VESSL		VESSL TOTAL	BARGS		BARGES TOTAL	LOCKGS COMMER	LCKGES			LCKGES TOTAL	TONNAGE (KTONS)
		RECRTN	OTHER		EMPTY	FULL			RECRTN	OTHER	(NAV, OPN, ETC)		

COLUMBIA RIVER

BONNEVILLE LOCK & DAM	***												
UPBOUND STATISTICS	214	4	14	232	567	171	738	489	7	2	498	228	
DOWNBOUND STATISTICS	216	13	16	245	28	714	742	515	0	4	519	1724	
TOTALS	430	17	30	477	595	885	1480	1004	7	6	1017	1952	

THE DALLES DAM	***											
UPBOUND STATISTICS	179	0	6	185	445	176	621	182	0	3	185	272
DOWNBOUND STATISTICS	176	0	3	179	25	584	609	178	0	3	181	1556
TOTALS	355	0	9	364	470	760	1230	360	0	6	366	1828

JOHN DAY LOCK & DAM	***											
UPBOUND STATISTICS	171	0	5	176	419	167	586	175	0	5	180	216
DOWNBOUND STATISTICS	175	0	4	179	29	578	607	175	0	4	179	1514
TOTALS	346	0	9	355	448	745	1193	350	0	9	359	1730

WILLAMETTE RIVER

WILLAMETTE FALLS LOCKS 1 - 4 NO DATA RECORDED FOR THIS LOCK

WILLAMETTE FALLS GUARD LOCK NO DATA RECORDED FOR THIS LOCK

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC 62	DISTRICT NAME PORTLAND	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED		
			1/83	2/83	3/83

APPROACH			LOCK PROCESSING TIME (MIN.)						: DELAYED DELAY		DELAY	DELAY
			ENTRY		CHAMBER		EXIT		: VESSELS TIME		AVG	MAX
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MAX

COLUMBIA RIVER

BONNEVILLE LOCK & DAM	1	7	67	1	7	70	4	22	81	1	4	20	:	444	50951	114.8	1481
THE DALLES DAM	1	6	125	2	6	32	5	22	60	1	5	20	:	270	3160	11.7	85
JOHN DAY LOCK & DAM	1	4	27	1	7	367	15	28	411	2	5	25	:	356	1936	5.4	60

WILLAMETTE RIVER

WILLAMETTE FALLS LOCKS 1 - 4 NO DATA RECORDED FOR THIS LOCK

WILLAMETTE FALLS GUARD LOCK NO DATA RECORDED FOR THIS LOCK

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

ERDC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
63	SEATTLE	NORTH PACIFIC	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
LAKE WASHINGTON SHP CA	01-HIRAM M CHITTENDEN LOCKS	0800/0080/30.0
	01-HIRAM M CHITTENDEN LOCKS AUX1	0123/0030/25.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
63	SEATTLE	NORTH PACIFIC	1/83	2/83	3/83

RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
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(NAV, OPN, ETC)

LAKE WASHINGTON SHP CA

HIRAM M CHITTENDEN LOCKS	***											
UPBOUND STATISTICS	203	1611	342	2156	67	190	257	435	106	72	613	288
DOWNBOUND STATISTICS	239	1200	391	1830	189	180	369	514	123	73	710	167
TOTALS	442	2811	733	3986	256	370	626	949	229	145	1323	455

HIRAM M CHITTENDEN LOCKS AUX1	***											
UPBOUND STATISTICS	16	2259	248	2523	16	0	16	391	747	112	1250	0
DOWNBOUND STATISTICS	16	2357	267	2640	4	12	16	432	831	104	1367	0
TOTALS	32	4616	515	5163	20	12	32	823	1578	216	2617	0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

ENOC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
63	SEATTLE	NORTH PACIFIC	1/83	2/83	3/83

APPROACH			LOCK PROCESSING TIME (MIN.)			EXIT			:	DELAYED	DELAY	DELAY	DELAY
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	:	VESSELS	TIME	AVG	MAX
										(IN MINUTES)			

LAKE WASHINGTON SHP CA

HIRAM M CHITTENDEN LOCKS	1	2	25	1	3	49	1	10	82	1	6	66 :	1148	5592	4.9	120
HIRAM M CHITTENDEN LOCKS AUX	1	1	13	1	1	23	1	3	27	1	7	71 :	1045	4005	3.8	65

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
64	WALLA WALLA	NORTH PACIFIC	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
SNAKE RIVER	01-ICE HARBOR LOCK & DAM	0651/0085/14.0
	02-LOWER MONUMENTAL LOCK & DAM	0651/0085/14.0
	03-LITTLE GOOSE LOCK & DAM	0651/0085/14.0
	04-LOWER GRANITE LOCK & DAM	0651/0085/14.0
COLUMBIA RIVER	24-MCNARY LOCK & DAM	0651/0085/14.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC 64	DISTRICT NAME WALLA WALLA	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED									
			1/83			2/83			3/83			

RIVER/LOCK NAME	TONS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGS	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL (NAV, OPN, ETC)	

SNAKE RIVER												
ICE HARBOR LOCK & DAM	***											
UPBOUND STATISTICS	172	13	45	230	306	48	354	212	9	1	222	15
DOWNBOUND STATISTICS	182	14	33	229	8	336	344	194	8	0	202	883
TOTALS	354	27	78	459	314	384	698	406	17	1	424	898
LOWER MONUMENTAL LOCK & DAM	***											
UPBOUND STATISTICS	110	4	1	115	274	49	323	112	1	2	115	15
DOWNBOUND STATISTICS	107	4	3	114	8	310	318	109	1	0	110	810
TOTALS	217	8	4	229	282	359	641	221	2	2	225	825
LITTLE GOOSE LOCK & DAM	***											
UPBOUND STATISTICS	109	0	1	110	266	49	315	110	0	2	112	15
DOWNBOUND STATISTICS	107	1	2	110	8	304	312	110	0	1	111	815
TOTALS	216	1	3	220	274	353	627	220	0	3	223	830
LOWER GRANITE LOCK & DAM	***											
UPBOUND STATISTICS	93	0	2	95	152	47	199	93	0	8	101	12
DOWNBOUND STATISTICS	92	0	4	96	3	199	202	93	0	9	102	470
TOTALS	185	0	6	191	155	246	401	186	0	17	203	482
COLUMBIA RIVER												
MCNARY LOCK & DAM	***											
UPBOUND STATISTICS	175	11	8	194	387	175	562	179	7	0	186	219
DOWNBOUND STATISTICS	175	11	7	193	32	522	554	178	8	1	187	1349
TOTALS	350	22	15	387	419	697	1116	357	15	1	373	1568

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

ERDC 64	DISTRICT NAME WALLA WALLA	DIVISION NAME NORTH PACIFIC	1/83	MONTHS REPORTED 2/83	3/83
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LOCK PROCESSING TIME (MIN.)												:	DELAYED DELAY	DELAY	DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS TIME	AVG	MAX	
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(IN MINUTES)

SNAKE RIVER

ICE HARBOR LOCK & DAM	1	3	14	:	1	3	19	:	10	22	48	:	1	3	19	:	431	1844	4.3	83
LOWER MONUMENTAL LOCK & DAM	2	4	19	:	2	5	14	:	12	24	43	:	2	4	14	:	222	1328	6.0	60
LITTLE GOOSE LOCK & DAM	1	4	25	:	1	4	18	:	8	15	35	:	2	6	18	:	223	1093	4.9	46
LOWER GRANITE LOCK & DAM	1	4	23	:	2	5	32	:	10	15	57	:	2	4	20	:	208	2367	11.4	339

COLUMBIA RIVER

MCMARY LOCK & DAM	1	5	20	:	1	5	20	:	10	16	39	:	1	7	18	:	365	2727	7.5	115
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PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H1	HUNTINGTON	OHIO RIVER	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
KANAWHA RIVER	01-WINFIELD LOCKS & DAM MAIN 1	0360/0056/15.0
	01-WINFIELD LOCKS & DAM MAIN 2	0360/0056/15.0
	02-MARMET LOCKS & DAM MAIN 1	0360/0056/15.0
	02-MARMET LOCKS & DAM MAIN 2	0360/0056/15.0
	03-LONDON LOCKS & DAM MAIN 1	0360/0056/15.0
	03-LONDON LOCKS & DAM MAIN 2	0360/0056/15.0
OHIO RIVER	21-BELLEVILLE LOCKS & DAM	1200/0110/12.0
	21-BELLEVILLE LOCKS & DAM AUX 1	0600/0110/12.0
	22-RACINE LOCKS & DAM	1200/0110/12.0
	22-RACINE LOCKS & DAM AUX 1	0600/0110/12.0
	23-GALLIPOLIS LOCKS & DAM	0600/0110/12.0
	23-GALLIPOLIS LOCKS & DAM AUX 1	0360/0110/12.0
	24-GREENUP LOCKS & DAM	1200/0110/12.0
	24-GREENUP LOCKS & DAM AUX 1	0600/0110/12.0
	25-CAPT ANT MELDAHL LOCKS & DAM	1200/0110/12.0
	25-CAPT ANT MELDAHL LK&DAM AUX 1	0600/0110/12.0
	72-WILLOW ISLAND LOCKS & DAM	1200/0110/12.0
	72-WILLOW ISLAND LOCKS & DAM AUX	0600/0110/12.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC #1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			1/83		2/83		3/83					
RIVER/LOCK NAME												
TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
(NAV, OPN, ETC)												
KANAMHA RIVER												
WINFIELD LOCKS & DAM MAIN 1	***											
UPBOUND STATISTICS	258	0	2	260	1157	400	1557	927	0	3	696	
DOWNBOUND STATISTICS	284	0	13	297	218	1697	1915	1086	0	3	1837	
TOTALS	542	0	15	557	1375	2097	3472	2013	0	6	2533	
WINFIELD LOCKS & DAM MAIN 2	***											
UPBOUND STATISTICS	230	3	14	247	1223	186	1409	747	6	3	220	
DOWNBOUND STATISTICS	185	2	13	200	324	700	1024	591	5	2	715	
TOTALS	415	5	27	447	1547	886	2433	1338	11	5	935	
MARRET LOCKS & DAM MAIN 1	***											
UPBOUND STATISTICS	142	0	10	152	687	54	741	537	0	0	76	
DOWNBOUND STATISTICS	176	0	3	179	49	881	930	656	0	0	1062	
TOTALS	318	0	13	331	736	935	1671	1193	0	0	1138	
MARRET LOCKS & DAM MAIN 2	***											
UPBOUND STATISTICS	137	3	24	164	439	33	472	346	6	2	50	
DOWNBOUND STATISTICS	95	3	38	136	41	251	292	236	5	1	282	
TOTALS	232	6	62	300	480	284	764	582	11	3	332	
LONDON LOCKS & DAM MAIN 1	***											
UPBOUND STATISTICS	28	0	2	30	88	0	88	71	0	0	0	
DOWNBOUND STATISTICS	26	0	5	31	0	70	70	50	0	0	77	
TOTALS	54	0	7	61	88	70	158	121	0	0	77	
LONDON LOCKS & DAM MAIN 2	***	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	77	0	15	92	217	0	217	153	0	2	1	
DOWNBOUND STATISTICS	80	0	8	88	7	211	218	153	0	1	390	
TOTALS	157	0	23	180	224	211	435	306	0	3	391	
OHIO RIVER												
BELLEVILLE LOCKS & DAM	***											
UPBOUND STATISTICS	318	0	1	319	1181	2187	3368	318	0	0	3274	
DOWNBOUND STATISTICS	308	0	4	312	1103	2309	3412	308	0	0	3486	
TOTALS	626	0	5	631	2284	4496	6780	626	0	0	6760	

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC HI	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED										TONNAGE (KTONS)
			1/83		2/83		3/83						
RIVER/LOCK NAME		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	
(NAV, OPN, ETC)													
OHIO RIVER													
BELLEVILLE LOCKS & DAM AUX 1		***											
UPBOUND STATISTICS		32	1	3	36	34	64	98	37	0	5	42	84
DOWNBOUND STATISTICS		37	2	3	42	72	32	104	41	1	6	48	39
TOTALS		69	3	6	78	106	96	202	78	1	11	90	123
RACINE LOCKS & DAM		***											
UPBOUND STATISTICS		341	0	3	344	1340	2245	3585	341	0	0	341	3329
DOWNBOUND STATISTICS		325	2	6	333	1113	2448	3561	327	0	0	327	3598
TOTALS		666	2	9	677	2453	4693	7146	668	0	0	668	6927
RACINE LOCKS & DAM AUX 1		***											
UPBOUND STATISTICS		30	8	6	44	34	42	76	36	7	5	48	58
DOWNBOUND STATISTICS		38	6	4	48	54	56	110	44	5	5	54	57
TOTALS		68	14	10	92	88	98	186	80	12	10	102	115
GALLIPOLIS LOCKS & DAM		***											
UPBOUND STATISTICS		397	0	6	403	1280	2552	3832	667	0	0	667	3898
DOWNBOUND STATISTICS		364	1	4	369	1566	2133	3699	623	1	0	624	3172
TOTALS		761	1	10	772	2846	4685	7531	1290	1	0	1291	7070
GALLIPOLIS LOCKS & DAM AUX 1		***											
UPBOUND STATISTICS		20	0	18	38	20	21	41	41	0	10	51	26
DOWNBOUND STATISTICS		30	0	29	59	46	14	60	62	0	11	73	15
TOTALS		50	0	47	97	66	35	101	103	0	21	124	41
GREENUP LOCKS & DAM		***											
UPBOUND STATISTICS		433	0	4	437	3101	1395	4496	436	0	0	436	2158
DOWNBOUND STATISTICS		422	0	5	427	759	3645	4404	427	0	0	427	5433
TOTALS		855	0	9	864	3860	5040	8900	863	0	0	863	7591
GREENUP LOCKS & DAM AUX 1		***											
UPBOUND STATISTICS		69	50	30	149	108	29	137	100	49	1	150	43
DOWNBOUND STATISTICS		59	35	44	138	65	59	124	103	32	2	137	86
TOTALS		128	85	74	287	173	88	261	203	81	3	287	129

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER		MONTHS REPORTED								
				1/83	2/83	3/83						
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
OHIO RIVER												
CAPT ANT MELDAHL LOCKS & DAM	***											
UPBOUND STATISTICS	430	0	0	430	2744	1771	4515	430	0	0	430	2798
DOWNBOUND STATISTICS	408	0	6	414	805	3614	4419	412	0	0	412	5465
TOTALS	838	0	6	844	3549	5385	8934	842	0	0	842	8263
CAPT ANT MELDAHL LK&DAM AUX 1	***											
UPBOUND STATISTICS	39	9	4	52	54	51	105	44	8	0	52	78
DOWNBOUND STATISTICS	36	10	9	55	60	29	89	47	9	0	56	38
TOTALS	75	19	13	107	114	80	194	91	17	0	108	116
WILLOW ISLAND LOCKS & DAM	***											
UPBOUND STATISTICS	274	1	0	275	1070	1767	2837	276	0	0	276	2353
DOWNBOUND STATISTICS	283	1	2	286	858	2160	3018	283	1	1	285	3193
TOTALS	557	2	2	561	1928	3927	5855	559	1	1	561	5746
WILLOW ISLAND LOCKS & DAM AUX	***											
UPBOUND STATISTICS	85	1	15	101	201	258	459	124	1	3	128	324
DOWNBOUND STATISTICS	77	5	12	94	175	170	345	109	3	2	114	241
TOTALS	162	6	27	195	376	428	804	233	4	5	242	565

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON				DIVISION NAME OHIO RIVER										MONTHS REPORTED					
															1/83				2/83	
													LOCK PROCESSING TIME (MIN.)	:	DELAYED	DELAY	DELAY	DELAY		
APPROACH				ENTRY		CHAMBER				EXIT		:	VESSELS	TIME	AVG	MAX				
MIN AVG MAX :				MIN AVG MAX :	MIN AVG MAX :	MIN AVG MAX :	MIN AVG MAX :	MIN AVG MAX :	MIN AVG MAX :	MIN AVG MAX :	MIN AVG MAX :	MIN AVG MAX :	MIN AVG MAX :	MIN AVG MAX :	MIN AVG MAX :	MIN AVG MAX :				
KAMAWHA RIVER																				
WINFIELD LOCKS & DAM MAIN 1 1 9 112 1 4 22 5 10 31 3 11 62 : 290 37492 129.3 730																				
WINFIELD LOCKS & DAM MAIN 2 1 9 82 1 4 26 5 10 29 3 11 490 : 161 17761 110.3 460																				
MARNET LOCKS & DAM MAIN 1 1 9 45 1 4 16 5 8 19 1 10 49 : 36 5558 154.4 1620																				
MARNET LOCKS & DAM MAIN 2 1 9 50 1 4 15 5 8 17 1 8 47 : 24 1889 78.7 207																				
LONDON LOCKS & DAM MAIN 1 1 12 76 1 5 15 6 9 20 2 7 21 : 9 3309 367.7 1450																				
LONDON LOCKS & DAM MAIN 2 1 10 54 1 5 51 6 8 20 2 6 65 : 28 5882 210.1 631																				
OHIO RIVER																				
BELLEVILLE LOCKS & DAM 1 18 55 2 8 29 8 12 31 2 8 19 : 162 5309 32.8 152																				
BELLEVILLE LOCKS & DAM AUX 1 1 16 43 1 5 30 10 12 20 1 5 15 : 1 36 36.0 36																				
RACINE LOCKS & DAM 1 14 50 1 10 23 8 10 21 3 9 28 : 175 6094 34.8 178																				
RACINE LOCKS & DAM AUX 1 1 10 30 1 6 18 10 10 20 1 6 17 : 6 214 35.7 107																				
GALLIPOLIS LOCKS & DAM 1 11 82 1 11 37 5 10 26 2 17 68 : 453 64628 142.7 970																				
GALLIPOLIS LOCKS & DAM AUX 1 1 6 50 2 5 20 5 10 18 2 6 43 : 8 295 36.9 119																				
GREENUP LOCKS & DAM 1 14 50 2 9 25 8 11 22 2 9 27 : 211 6918 32.8 139																				
GREENUP LOCKS & DAM AUX 1 1 9 31 2 5 16 8 10 20 1 5 14 : 8 156 19.5 47																				
CAPT ANT MELDAHL LOCKS & DAM 1 19 58 1 10 30 6 13 34 2 10 25 : 274 13471 49.2 200																				

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H1	HUNTINGTON	OHIO RIVER	1/83	2/83	3/83

LOCK PROCESSING TIME (MIN.)												:	DELAYED DELAY	DELAY	DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS TIME	AVG	MAX	
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(IN MINUTES)

OHIO RIVER

CAPT ANT MELDAHL LK&DAM AUX	4	16	55	1	4	14	6	13	27	1	6	25	:	6	232	38.7	80
WILLOW ISLAND LOCKS & DAM	1	16	53	1	7	29	5	15	39	1	8	30	:	135	6165	45.7	285
WILLOW ISLAND LOCKS & DAM AU	1	13	47	1	5	23	6	14	42	1	7	47	:	37	2827	76.4	233

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H2	LOUISVILLE	OHIO RIVER	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
GREEN/BARREN RIVER	21-LOCK & DAM 1	0600/0084/12.0
	22-LOCK & DAM 2	0600/0084/12.0
	23-LOCK & DAM 3	0138/0036/12.0
OHIO RIVER	41-MARKLAND LOCKS & DAM	1200/0110/12.0
	41-MARKLAND LOCKS & DAM AUX 1	0600/0110/12.0
	42-MCALPINE LOCKS & DAM	1200/0110/12.0
	42-MCALPINE LOCKS & DAM AUX 1	0600/0110/12.0
	50-LOCK & DAM 50	0600/0110/12.0
	51-LOCK & DAM 51	0600/0110/12.0
	52-LOCK & DAM 52	1200/0110/12.0
	52-LOCK & DAM 52 AUX 1	0600/0110/12.0
	53-LOCK & DAM 53	0600/0110/12.0
	75-CANNELTON LOCK & DAM	1200/0110/12.0
	75-CANNELTON LOCK & DAM AUX	0600/0110/12.0
	76-NEWBURGH LOCK & DAM	1200/0110/12.0
	76-NEWBURGH LOCK & DAM AUX 1	0600/0110/12.0
	77-UNIONTOWN LOCK & DAM	1200/0110/12.0
	77-UNIONTOWN LOCK & DAM AUX 1	0600/0110/12.0
	78-SMITHLAND LOCK & DAM	1200/0110/12.0
	78-SMITHLAND LOCK & DAM AUX 1	1200/0110/12.0

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER						MONTHS REPORTED					
								1/83		2/83		3/83	
RIVER/LOCK NAME		TOWS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
GREEN/BARREN RIVER													
LOCK & DAM 1		***											
UPBOUND STATISTICS		369	0	6	375	1222	215	1437	366	0	10	376	316
DOWNBOUND STATISTICS		371	1	3	375	51	1382	1433	366	0	10	376	2072
TOTALS		740	1	9	750	1273	1597	2870	732	0	20	752	2388
LOCK & DAM 2		***											
UPBOUND STATISTICS		291	2	2	295	1113	16	1129	295	1	0	296	24
DOWNBOUND STATISTICS		284	2	4	290	2	1097	1099	290	1	0	291	1634
TOTALS		575	4	6	585	1115	1113	2228	585	2	0	587	1658
LOCK & DAM 3		NO DATA RECORDED FOR THIS LOCK											
OHIO RIVER													
MARKLAND LOCKS & DAM		***											
UPBOUND STATISTICS		478	3	4	485	2493	2203	4696	481	2	0	483	3471
DOWNBOUND STATISTICS		454	5	9	468	942	3555	4497	461	4	0	465	5407
TOTALS		932	8	13	953	3435	5758	9193	942	6	0	948	8878
MARKLAND LOCKS & DAM AUX 1		***											
UPBOUND STATISTICS		26	21	8	55	31	37	68	31	18	0	49	56
DOWNBOUND STATISTICS		27	24	8	59	33	31	64	33	21	1	55	36
TOTALS		53	45	16	114	64	68	132	64	39	1	104	92
MCALPINE LOCKS & DAM		***											
UPBOUND STATISTICS		576	10	41	627	2067	2976	5043	601	6	2	609	4671
DOWNBOUND STATISTICS		556	10	47	613	1299	3625	4924	592	4	2	598	5473
TOTALS		1132	20	88	1240	3366	6601	9967	1193	10	4	1207	10144
MCALPINE LOCKS & DAM AUX 1		NO DATA RECORDED FOR THIS LOCK											

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			1/83			2/83			3/83				
RIVER/LOCK NAME		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
OHIO RIVER													
LOCK & DAM 50		NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 51		NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 52		***											
UPBOUND STATISTICS		943	0	110	1053	5311	3505	8816	0	0	1011	1011	5585
DOWNBOUND STATISTICS		960	0	92	1052	1764	7132	8896	0	0	1040	1040	10474
TOTALS		1903	0	202	2105	7075	10637	17712	0	0	2051	2051	16059
LOCK & DAM 52 AUX 1		NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 53		NO DATA RECORDED FOR THIS LOCK											
CANNELTON LOCK & DAM		***											
UPBOUND STATISTICS		530	0	9	539	2170	3114	5284	533	0	0	533	4930
DOWNBOUND STATISTICS		488	4	5	497	1196	3807	5003	490	1	0	491	5534
TOTALS		1018	4	14	1036	3366	6921	10287	1023	1	0	1024	10464
CANNELTON LOCK & DAM AUX		***											
UPBOUND STATISTICS		37	5	4	46	100	33	133	41	2	1	44	53
DOWNBOUND STATISTICS		55	2	3	60	82	83	165	59	1	2	62	109
TOTALS		92	7	7	106	182	116	298	100	3	3	106	162
NEWBURGH LOCK & DAM		***											
UPBOUND STATISTICS		566	1	8	575	2870	2675	5545	576	0	0	576	4270
DOWNBOUND STATISTICS		577	3	8	588	1133	4369	5502	586	2	0	588	6292
TOTALS		1143	4	16	1163	4003	7044	11047	1162	2	0	1164	10562
NEWBURGH LOCK & DAM AUX 1		***											
UPBOUND STATISTICS		68	17	40	125	122	45	167	108	17	3	128	78
DOWNBOUND STATISTICS		76	15	20	111	120	57	177	97	14	3	114	76
TOTALS		144	32	60	236	242	102	344	205	31	6	242	154

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER						MONTHS REPORTED					3/83
								1/83	2/83				

RIVER/LOCK NAME	TOWS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGS	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)	
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL		
(NAV, OPN, ETC)													

OHIO RIVER													
UNIONTOWN LOCK & DAM		***											
UPBOUND STATISTICS	666	0	20	686	5238	2247	7485	669	0	0	669	3661	
DOWNBOUND STATISTICS	681	0	13	694	863	6614	7477	684	0	0	684	9924	
TOTALS	1347	0	33	1380	6101	8861	14962	1353	0	0	1353	13585	
UNIONTOWN LOCK & DAM AUX 1		***											
UPBOUND STATISTICS	49	56	48	153	93	23	116	73	28	2	103	30	
DOWNBOUND STATISTICS	34	62	33	129	43	39	82	53	31	2	86	54	
TOTALS	83	118	81	282	136	62	198	126	59	4	189	84	
SMITHLAND LOCK & DAM		***											
UPBOUND STATISTICS	90	0	16	106	547	202	749	103	0	0	103	336	
DOWNBOUND STATISTICS	713	2	26	741	746	6779	7525	732	2	0	734	10269	
TOTALS	803	2	42	847	1293	6981	8274	835	2	0	837	10605	
SMITHLAND LOCK & DAM AUX 1		***											
UPBOUND STATISTICS	742	3	28	773	5739	2082	7821	755	1	0	756	3384	
DOWNBOUND STATISTICS	119	1	10	130	214	800	1014	126	0	0	126	1265	
TOTALS	861	4	38	903	5953	2882	8835	881	1	0	882	4649	

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED													
			1/83				2/83				3/83					
APPROACH			LOCK PROCESSING TIME (MIN.)								: DELAYED DELAY		DELAY	DELAY		
			ENTRY		CHAMBER		EXIT		: VESSELS TIME		AVG	MAX				
MIN AVG MAX			: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	:		(IN MINUTES)		
GREEN/BARREN RIVER																
LOCK & DAM 1	1	6	16	1	3	14	1	8	19	1	5	83 :	79	1293	16.4	120
LOCK & DAM 2	1	4	23	1	3	14	5	10	28	1	5	20 :	59	1027	17.4	140
LOCK & DAM 3	NO DATA RECORDED FOR THIS LOCK															
OHIO RIVER																
MARKLAND LOCKS & DAM	1	22	88	1	7	27	5	14	40	1	8	35 :	412	21513	52.2	394
MARKLAND LOCKS & DAM AUX 1	1	15	53	1	3	13	6	12	20	1	6	13 :	11	151	13.7	24
MCALPINE LOCKS & DAM	1	18	105	1	8	38	5	12	50	1	8	53 :	594	31000	52.2	394
MCALPINE LOCKS & DAM AUX 1	NO DATA RECORDED FOR THIS LOCK															
LOCK & DAM 50	NO DATA RECORDED FOR THIS LOCK															
LOCK & DAM 51	NO DATA RECORDED FOR THIS LOCK															
LOCK & DAM 52	1	3	40	1	1	12	1	1	8	1	3	18 :	10	149	14.9	45
LOCK & DAM 52 AUX 1	NO DATA RECORDED FOR THIS LOCK															
LOCK & DAM 53	NO DATA RECORDED FOR THIS LOCK															
CANNELTON LOCK & DAM	1	24	105	1	7	30	5	10	70	1	8	80 :	453	24321	53.7	207

EROC H2	DISTRICT NAME LOUISVILLE			DIVISION NAME OHIO RIVER										MONTHS REPORTED				
														1/83		2/83		3/83
														DELATED	DELATED	DELATED	DELATED	
														VESSLS	TIME	AVG	MAX	
													(IN MINUTES)					
OHIO RIVER																		
CANNELTON LOCK & DAM AUX	5	23	60	1	5	25	5	11	70	1	5	15	:	5	173	34.6	73	
NEWBURGH LOCK & DAM	1	15	115	1	7	26	5	10	70	1	9	40	:	495	20115	40.6	625	
NEWBURGH LOCK & DAM AUX 1	1	10	50	1	4	17	5	9	20	1	6	15	:	30	654	21.8	150	
UNIONTOWN LOCK & DAM	1	18	88	1	7	24	5	8	35	1	8	48	:	611	27215	44.5	242	
UNIONTOWN LOCK & DAM AUX 1	1	11	40	1	3	15	5	8	13	1	3	15	:	5	55	11.0	17	
SMITHLAND LOCK & DAM	1	15	70	1	9	25	5	10	90	2	8	30	:	151	2334	15.5	105	
SMITHLAND LOCK & DAM AUX 1	2	11	60	2	8	25	5	9	50	4	8	20	:	138	3390	24.6	1440	

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H3	NASHVILLE	OHIO RIVER	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
TENNESSEE RIVER	01-KENTUCKY LOCK	0600/0110/11.0
	02-PICKWICK LANDING LOCK	1000/0110/11.0
	02-PICKWICK LANDING LOCK AUX	0600/0110/11.0
	03-WILSON LOCK	0600/0110/11.0
	03-WILSON LOCK AUX	0292/0060/11.0
	04-GEN JOS WHEELER LOCK	0600/0110/11.0
	04-GEN JOS WHEELER LK AUX1	0400/0060/11.0
	05-BUNTERSVILLE LOCK	0600/0110/11.0
	05-BUNTERSVILLE LOCK AUX 1	0360/0060/11.0
	06-NICKAJAC LOCK	0600/0110/11.0
	07-CHICKAMAUGA LOCK	0360/0060/11.0
	08-WATTS BAR LOCK	0360/0060/11.0
	09-FORT LOUDON LOCK	0360/0060/11.0
CLINCH RIVER	11-MELTON HILL LOCK	0400/0075/11.0
CUMBERLAND RIVER	21-BARKLEY LOCK	0800/0110/11.0
	22-CHEATHAM LOCK	0800/0110/11.0
	23-CORDELL HULL LOCK	0400/0084/11.0
	24-OLD HICKORY LOCK	0400/0084/11.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			1/83		2/83		3/83					

RIVER/LOCK NAME	TOWS	VESSEL	VESSEL	VESSEL	BARGE	BARGE	BARGE	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL	
(NAV, OPN, ETC)												

TENNESSEE RIVER												
KENTUCKY LOCK	***											
UPBOUND STATISTICS	407	2	19	428	382	2998	3380	626	3	0	629	4482
DOWNBOUND STATISTICS	366	4	27	397	2465	672	3137	590	6	4	600	927
TOTALS	773	6	46	825	2847	3670	6517	1216	9	4	1229	5409
PICKNICK LANDING LOCK	***											
UPBOUND STATISTICS	268	6	4	278	232	2162	2394	436	8	12	456	3160
DOWNBOUND STATISTICS	258	6	13	277	1987	435	2422	431	9	11	451	607
TOTALS	526	12	17	555	2219	2597	4816	867	17	23	907	3767
PICKNICK LANDING LOCK AUX	NO DATA RECORDED FOR THIS LOCK											
WILSON LOCK	***											
UPBOUND STATISTICS	108	7	47	162	207	607	814	176	8	10	194	898
DOWNBOUND STATISTICS	116	5	36	157	503	342	845	192	5	10	207	463
TOTALS	224	12	83	319	710	949	1659	368	13	20	401	1361
WILSON LOCK AUX	***	ONLY THIRD MONTH REPORTED										
UPBOUND STATISTICS	20	1	9	30	27	115	142	140	5	17	162	164
DOWNBOUND STATISTICS	20	3	9	32	89	81	170	161	13	13	187	108
TOTALS	40	4	18	62	116	196	312	301	18	30	349	272
GEN JOS WHEELER LOCK	***											
UPBOUND STATISTICS	123	9	4	136	194	714	908	177	11	2	190	1057
DOWNBOUND STATISTICS	121	5	7	133	595	383	978	179	7	2	188	507
TOTALS	244	14	11	269	789	1097	1886	356	18	4	378	1564
GEN JOS WHEELER LK	AUX1	***										
UPBOUND STATISTICS	0	18	0	18	0	0	0	3	13	2	18	0
DOWNBOUND STATISTICS	0	22	0	22	0	0	0	2	14	1	17	0
TOTALS	0	40	0	40	0	0	0	5	27	3	35	0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
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ERDC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
								1/83	2/83	3/83			
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
(NAV, OPN, ETC)													
TENNESSEE RIVER													
GUNTERSVILLE LOCK	***												
UPBOUND STATISTICS	126	23	1	150	283	583	866	172	20	5	197	878	
DOWNBOUND STATISTICS	122	22	1	145	502	409	911	178	23	5	206	545	
TOTALS	248	45	2	295	785	992	1777	350	43	10	403	1423	
GUNTERSVILLE LOCK	AUX 1	***											
UPBOUND STATISTICS	0	37	0	37	0	0	0	1	29	1	31	0	
DOWNBOUND STATISTICS	0	38	0	38	0	0	0	0	32	0	32	0	
TOTALS	0	75	0	75	0	0	0	1	61	1	63	0	
NICKAJAC LOCK	***												
UPBOUND STATISTICS	128	5	7	140	280	428	708	159	5	5	169	567	
DOWNBOUND STATISTICS	126	9	8	143	373	324	697	159	8	4	171	419	
TOTALS	254	14	15	283	653	752	1405	318	13	9	340	986	
CHICKAMAUGA LOCK	***												
UPBOUND STATISTICS	48	19	1	68	34	204	238	170	62	31	263	268	
DOWNBOUND STATISTICS	44	21	7	72	182	54	236	166	71	27	264	66	
TOTALS	92	40	8	140	216	258	474	336	133	58	527	334	
WATTS BAR LOCK	***												
UPBOUND STATISTICS	34	17	1	52	59	56	115	83	37	11	131	79	
DOWNBOUND STATISTICS	35	21	4	60	46	74	120	85	44	8	137	88	
TOTALS	69	38	5	112	105	130	235	168	81	19	268	167	
FORT LOUDON LOCK	***												
UPBOUND STATISTICS	17	19	2	38	2	34	36	29	27	8	64	52	
DOWNBOUND STATISTICS	17	23	4	44	30	12	42	33	34	6	73	15	
TOTALS	34	42	6	82	32	46	78	62	61	14	137	67	
CLINCH RIVER													
MELTON HILL LOCK	***	ONLY SECOND AND THIRD MONTHS REPORTED											
UPBOUND STATISTICS	0	3	0	3	0	0	0	0	3	0	3	0	
DOWNBOUND STATISTICS	0	4	0	4	0	0	0	0	3	0	3	0	
TOTALS	0	7	0	7	0	0	0	0	6	0	6	0	

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
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 INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			1/83	2/83	3/83							
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGE EMPTY	BARGE FULL	BARGE TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
CUMBERLAND RIVER												
BARKLEY LOCK	***											
UPBOUND STATISTICS	22	5	1	28	10	154	164	25	3	2	30	199
DOWNBOUND STATISTICS	50	5	0	55	471	48	519	67	5	0	72	5
TOTALS	72	10	1	83	481	202	683	92	8	2	102	204
CHEATHAM LOCK	***											
UPBOUND STATISTICS	76	13	8	97	28	361	389	86	12	4	102	554
DOWNBOUND STATISTICS	82	9	2	93	356	35	391	85	9	4	98	45
TOTALS	158	22	10	190	384	396	780	171	21	8	200	599
CORDELL HULL LOCK	NO DATA RECORDED FOR THIS LOCK											
OLD HICKORY LOCK	***	ONLY FIRST AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS	16	33	7	56	1	30	31	27	27	6	60	60
DOWNBOUND STATISTICS	14	29	9	52	28	1	29	27	28	6	61	0
TOTALS	30	62	16	108	29	31	60	54	55	12	121	60

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EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED																
			1/83					2/83					3/83						
			LOCK PROCESSING TIME (MIN.)									:	DELAYED	DELAY	DELAY	DELAY			
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS	TIME	AVG	MAX			
MIN AVG MAX			:	MIN AVG MAX	:	MIN AVG MAX	:	MIN AVG MAX	:	MIN AVG MAX	:								
			:										:	(IN MINUTES)					
TENNESSEE RIVER																			
KENTUCKY LOCK			1	8	70	1	11	79	6	17	138	1	16	77	:	482	62032	128.7	546
PICKWICK LANDING LOCK			1	7	44	2	12	72	6	16	63	1	17	95	:	263	25598	97.3	524
PICKWICK LANDING LOCK AUX			NO DATA RECORDED FOR THIS LOCK																
WILSON LOCK			1	12	190	2	11	41	9	22	39	2	13	55	:	70	6568	93.8	275
WILSON LOCK AUX			1	7	51	2	7	23	28	47	74	2	13	80	:	50	51441	1028.8	2933
GEN JOS WHEELER LOCK			1	14	62	3	12	52	9	14	23	3	16	77	:	51	4311	84.5	255
GEN JOS WHEELER LK	AUX		2	10	16	3	3	6	10	13	23	3	5	25	:	1	15	15.0	15
GUNTERSVILLE LOCK			1	11	100	1	9	33	6	15	80	1	14	75	:	41	2191	53.4	180
GUNTERSVILLE LOCK	AUX		1	4	16	1	3	10	10	13	20	1	3	11	:	9	156	17.3	58
NICKAJAC LOCK			1	9	35	1	11	27	9	14	74	2	11	82	:	34	1404	41.3	109
CHICKAMAUGA LOCK			1	7	53	1	6	24	8	11	21	1	10	53	:	24	2357	98.2	476
WATTS BAR LOCK			1	8	48	1	5	18	12	17	76	1	10	133	:	7	159	22.7	50
FORT LOUDON LOCK			1	8	32	2	4	12	17	21	30	1	8	40	:	11	634	57.6	180
CLINCH RIVER																			
MELTON HILL LOCK			7	9	17	2	2	2	16	16	18	2	2	2	:	0	0	0.0	0
CUMBERLAND RIVER																			
BARKLEY LOCK			1	12	67	2	9	21	6	13	20	2	9	26	:	4	127	31.8	55

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EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED													
			1/83	2/83	3/83											

		LOCK PROCESSING TIME (MIN.)				:	DELAYED DELAY	DELAY	DELAY							
APPROACH		ENTRY		CHAMBER	EXIT	:	VESSELS TIME	AVG	MAX							
MIN AVG MAX :		MIN AVG MAX :		MIN AVG MAX :	MIN AVG MAX :	:										
						:	(IN MINUTES)									

CHEATHAM LOCK	2	9	92	2	9	34	8	16	29	2	7	36 :	6	153	25.5	46
CORDELL HULL LOCK	NO DATA RECORDED FOR THIS LOCK															
OLD HICKORY LOCK	1	3	10	1	5	29	6	16	25	1	5	47 :	9	245	27.2	64

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
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EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H4	PITTSBURGH	OHIO RIVER	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
OHIO RIVER	01-ENSWORTH LOCK & DAM	0600/0110/13.0
	01-ENSWORTH LOCK & DAM AUX 1	0360/0056/13.0
	02-DASHIELDS LOCK & DAM	0600/0110/13.0
	02-DASHIELDS LOCK & DAM AUX 1	0360/0056/13.0
	03-MONTGOMERY LOCK & DAM	0600/0110/13.0
	03-MONTGOMERY LOCK & DAM AUX 1	0360/0056/13.0
	04-NEW CUMBERLAND LOCK & DAM	1200/0110/13.0
	04-NEW CUMBERLAND LK & DAM AUX 1	0600/0110/13.0
	05-PIKE ISLAND LOCK & DAM	1200/0110/13.0
	05-PIKE ISLAND LOCK & DAM AUX 1	0600/0110/13.0
MONONGAHELA RIVER	22-LOCK & DAM 2	0720/0110/13.0
	22-LOCK & DAM 2 AUX 1	0360/0056/13.0
	23-LOCK & DAM 3	0720/0056/13.0
	23-LOCK & DAM 3 AUXILIARY 1	0360/0056/13.0
	24-LOCK & DAM 4	0720/0056/13.0
	24-LOCK & DAM 4 AUXILIARY 1	0360/0056/13.0
	25-MAXWELL LOCK & DAM	0720/0084/13.0
	25-MAXWELL LOCK & DAM AUX 1	0720/0084/13.0
	27-LOCK & DAM 7	0360/0056/13.0
	28-LOCK & DAM 8	0360/0056/13.0
ALLEGHENY RIVER	29-MORGANTOWN LOCK & DAM	0600/0084/13.0
	30-HILDEBRAND LOCK & DAM	0600/0084/13.0
	31-OPEKISKA LOCK & DAM	0600/0084/13.0
	42-LOCK & DAM 2	0360/0056/13.0
	43-LOCK & DAM 3	0360/0056/13.0
	44-LOCK & DAM 4	0360/0056/13.0
	45-LOCK & DAM 5	0360/0056/13.0
	46-LOCK & DAM 6	0360/0056/13.0
	47-LOCK & DAM 7	0360/0056/13.0
	48-LOCK & DAM 8	0360/0056/13.0
OHIO RIVER	49-LOCK & DAM 9	0360/0056/13.0
	71-HANNIBAL LOCKS & DAM	1200/0110/13.0
	71-HANNIBAL LOCKS & DAM AUX 1	0600/0110/13.0

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EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			1/83	2/83	3/83							
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGE EMPTY	BARGE FULL	BARGE TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
OHIO RIVER												
ENSWORTH LOCK & DAM	***											
UPBOUND STATISTICS	449	3	80	532	1078	1200	2278	540	1	8	549	1436
DOWNBOUND STATISTICS	436	2	85	523	856	1449	2305	543	1	7	551	1515
TOTALS	885	5	165	1055	1934	2649	4583	1083	2	15	1100	2949
ENSWORTH LOCK & DAM AUX 1	NO DATA RECORDED FOR THIS LOCK											
DASHIELDS LOCK & DAM	***											
UPBOUND STATISTICS	328	0	11	339	1045	1071	2116	380	0	1	381	1350
DOWNBOUND STATISTICS	340	0	8	348	755	1462	2217	384	0	1	385	1515
TOTALS	668	0	19	687	1800	2533	4333	764	0	2	766	2865
DASHIELDS LOCK & DAM AUX 1	***											
UPBOUND STATISTICS	80	2	63	145	50	57	107	145	1	7	153	63
DOWNBOUND STATISTICS	74	2	61	137	52	35	87	133	2	7	142	31
TOTALS	154	4	124	282	102	92	194	278	3	14	295	94
MONTGOMERY LOCK & DAM	***											
UPBOUND STATISTICS	319	0	12	331	986	1133	2119	387	0	0	387	1525
DOWNBOUND STATISTICS	326	0	10	336	873	1324	2197	397	0	1	398	1460
TOTALS	645	0	22	667	1859	2457	4316	784	0	1	785	2985
MONTGOMERY LOCK & DAM AUX 1	***											
UPBOUND STATISTICS	62	1	63	126	45	34	79	126	0	4	130	35
DOWNBOUND STATISTICS	44	1	63	108	29	22	51	109	0	2	111	24
TOTALS	106	2	126	234	74	56	130	235	0	6	241	59
NEW CUMBERLAND LOCK & DAM	***											
UPBOUND STATISTICS	234	0	9	243	356	1698	2054	234	0	0	234	2453
DOWNBOUND STATISTICS	224	0	6	230	1345	730	2075	225	0	0	225	928
TOTALS	458	0	15	473	1701	2428	4129	459	0	0	459	3381

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER						MONTHS REPORTED					
								1/83	2/83		3/83		
RIVER/LOCK NAME		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
OHIO RIVER													
NEW CUMBERLAND LK & DAM AUX 1		***											
UPBOUND STATISTICS		94	1	22	117	186	155	341	116	0	2	118	162
DOWNBOUND STATISTICS		103	2	19	124	223	85	308	122	2	4	128	92
TOTALS		197	3	41	241	409	240	649	238	2	6	246	254
PIKE ISLAND LOCK & DAM		***											
UPBOUND STATISTICS		283	0	5	288	376	2270	2646	283	0	1	284	3346
DOWNBOUND STATISTICS		248	0	4	252	1670	871	2541	247	0	0	247	1191
TOTALS		531	0	9	540	2046	3141	5187	530	0	1	531	4537
PIKE ISLAND LOCK & DAM AUX 1		***											
UPBOUND STATISTICS		81	1	33	115	135	105	240	114	0	1	115	142
DOWNBOUND STATISTICS		114	1	23	138	243	109	352	137	0	3	140	110
TOTALS		195	2	56	253	378	214	592	251	0	4	255	252
MONONGAHELA RIVER													
LOCK & DAM 2		***											
UPBOUND STATISTICS		328	2	5	335	1460	568	2028	357	1	1	359	742
DOWNBOUND STATISTICS		338	1	4	343	367	1754	2121	370	1	1	372	1765
TOTALS		666	3	9	678	1827	2322	4149	727	2	2	731	2507
LOCK & DAM 2 AUX 1		***											
UPBOUND STATISTICS		97	10	29	136	85	49	134	128	8	0	136	53
DOWNBOUND STATISTICS		87	9	33	129	68	45	113	122	8	0	130	53
TOTALS		184	19	62	265	153	94	247	250	16	0	266	106
LOCK & DAM 3		***											
UPBOUND STATISTICS		597	0	4	601	2552	439	2991	597	0	1	598	542
DOWNBOUND STATISTICS		604	0	6	612	271	2737	3008	607	0	1	608	2728
TOTALS		1203	0	10	1213	2823	3176	5999	1204	0	2	1206	3270

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EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
							1/83	2/83	3/83			
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGE EMPTY	BARGE FULL	BARGE TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
MONONGAHELA RIVER												
LOCK & DAM 3 AUXILIARY 1	***											
UPBOUND STATISTICS	110	3	98	211	120	39	159	206	2	1	209	39
DOWNBOUND STATISTICS	97	2	94	193	65	68	133	190	1	0	191	71
TOTALS	207	5	192	404	185	107	292	396	3	1	400	110
LOCK & DAM 4	***											
UPBOUND STATISTICS	520	1	5	526	2670	328	2998	554	1	0	555	366
DOWNBOUND STATISTICS	530	1	5	536	192	2804	2996	564	0	0	564	2752
TOTALS	1050	2	10	1062	2862	3132	5994	1118	1	0	1119	3118
LOCK & DAM 4 AUXILIARY 1	***											
UPBOUND STATISTICS	31	2	41	74	31	16	47	73	1	1	75	15
DOWNBOUND STATISTICS	21	1	33	55	25	13	38	56	0	1	57	14
TOTALS	52	3	74	129	56	29	85	129	1	2	132	29
MAXWELL LOCK & DAM	***											
UPBOUND STATISTICS	439	4	4	447	2318	276	2594	445	3	0	448	315
DOWNBOUND STATISTICS	73	4	3	80	46	383	429	77	3	0	80	368
TOTALS	512	8	7	527	2364	659	3023	522	6	0	528	683
MAXWELL LOCK & DAM AUX 1	***											
UPBOUND STATISTICS	66	4	0	70	337	30	367	67	3	0	70	32
DOWNBOUND STATISTICS	425	3	4	432	145	2336	2481	428	2	1	431	2303
TOTALS	491	7	4	502	482	2366	2848	495	5	1	501	2335
LOCK & DAM 7	***											
UPBOUND STATISTICS	488	1	15	504	2171	282	2453	915	1	3	919	323
DOWNBOUND STATISTICS	487	2	16	505	247	2179	2426	930	3	3	936	2027
TOTALS	975	3	31	1009	2418	2461	4879	1845	4	6	1855	2350
LOCK & DAM 8	***											
UPBOUND STATISTICS	427	1	12	440	1874	278	2152	800	1	3	804	323
DOWNBOUND STATISTICS	425	2	17	444	247	1897	2144	822	3	3	828	1783
TOTALS	852	3	29	884	2121	2175	4296	1622	4	6	1632	2106

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER					MONTHS REPORTED						
							1/83	2/83			3/83		
RIVER/LOCK NAME		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, DPN, ETC)	TONNAGE (KTONS)
NONONGAHELA RIVER													
MORGANTOWN LOCK & DAM		***											
UPBOUND STATISTICS		48	2	3	53	193	3	196	51	2	0	53	4
DOWNBOUND STATISTICS		47	3	2	52	2	191	193	50	2	0	52	184
TOTALS		95	5	5	105	195	194	389	101	4	0	105	188
HILDEBRAND LOCK & DAM		***											
UPBOUND STATISTICS		14	3	4	21	28	3	31	18	2	0	20	4
DOWNBOUND STATISTICS		14	4	3	21	4	27	31	18	3	0	21	34
TOTALS		28	7	7	42	32	30	62	36	5	0	41	38
OPEKISKA LOCK & DAM		***											
UPBOUND STATISTICS		3	11	2	16	0	3	3	5	11	0	16	4
DOWNBOUND STATISTICS		3	12	2	17	4	0	4	6	11	0	17	0
TOTALS		6	23	4	33	4	3	7	11	22	0	33	4
ALLEGHENY RIVER													
LOCK & DAM 2		***											
UPBOUND STATISTICS		146	15	15	176	113	300	413	232	20	1	253	328
DOWNBOUND STATISTICS		137	15	17	169	298	112	410	225	20	0	245	70
TOTALS		283	30	32	345	411	412	823	457	40	1	498	398
LOCK & DAM 3		***											
UPBOUND STATISTICS		150	5	12	167	116	319	435	230	7	1	238	345
DOWNBOUND STATISTICS		145	5	16	166	332	106	438	230	7	0	237	60
TOTALS		295	10	28	333	448	425	873	460	14	1	475	405
LOCK & DAM 4		***											
UPBOUND STATISTICS		101	1	18	120	176	91	267	151	1	0	152	122
DOWNBOUND STATISTICS		95	1	21	117	97	161	258	156	1	0	157	82
TOTALS		196	2	39	237	273	252	525	307	2	0	309	204

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EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED											
			1/83		2/83		3/83							
RIVER/LOCK NAME														
TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGO EMPTY	BARGO FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)			
(NAV, OPN, ETC)														
ALLEGHENY RIVER														
LOCK & DAM 5														

UPBOUND STATISTICS	35	0	1	36	159	1	160	46	0	0	46	1		
DOWNBOUND STATISTICS	34	0	1	35	10	146	156	48	0	0	48	63		
TOTALS	69	0	2	71	169	147	316	94	0	0	94	64		
LOCK & DAM 6														
*** ONLY FIRST AND THIRD MONTHS REPORTED														
UPBOUND STATISTICS	34	0	10	44	152	3	155	53	0	0	53	2		
DOWNBOUND STATISTICS	34	0	9	43	11	147	158	57	0	0	57	62		
TOTALS	68	0	19	87	163	150	313	110	0	0	110	64		
LOCK & DAM 7														
*** ONLY FIRST AND THIRD MONTHS REPORTED														
UPBOUND STATISTICS	3	0	0	3	5	5	10	5	0	0	5	3		
DOWNBOUND STATISTICS	1	0	2	3	0	1	1	3	0	0	3	1		
TOTALS	4	0	2	6	5	6	11	8	0	0	8	4		
LOCK & DAM 8														
NO DATA RECORDED FOR THIS LOCK														
LOCK & DAM 9														
NO DATA RECORDED FOR THIS LOCK														
OHIO RIVER														
HANNIBAL LOCKS & DAM														

UPBOUND STATISTICS	275	0	0	275	1097	1933	3030	275	0	0	275	2788		
DOWNBOUND STATISTICS	270	1	1	272	964	2165	3129	273	0	0	273	3050		
TOTALS	545	1	1	547	2061	4098	6159	548	0	0	548	5838		
HANNIBAL LOCKS & DAM AUX 1														

UPBOUND STATISTICS	59	0	7	66	117	53	170	67	0	3	70	70		
DOWNBOUND STATISTICS	65	0	4	69	81	122	203	69	0	4	73	109		
TOTALS	124	0	11	135	198	175	373	136	0	7	143	179		

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH			DIVISION NAME OHIO RIVER									MONTHS REPORTED								
													1/83			2/83			3/83		
APPROACH			LOCK ENTRY			PROCESSING TIME (MIN.) CHAMBER			EXIT			DELATED DELAY	DELAY	DELAY	DELAY						
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	VESSELS	TIME	AVG	MAX						
(IN MINUTES)																					
OHIO RIVER																					
ENSMORTH LOCK & DAM			1	12	83	1	7	66	8	17	53	1	8	64	462	35251	76.3	589			
ENSMORTH LOCK & DAM AUX 1			NO DATA RECORDED FOR THIS LOCK																		
DASHIELDS LOCK & DAM			1	15	85	1	8	42	5	11	33	2	11	72	206	10752	52.2	269			
DASHIELDS LOCK & DAM AUX 1			1	12	53	1	3	15	5	7	16	1	3	24	14	258	18.4	50			
MONTGOMERY LOCK & DAM			1	10	60	1	10	40	5	13	55	3	14	47	214	14913	69.7	402			
MONTGOMERY LOCK & DAM AUX 1			1	7	20	1	3	10	5	10	20	2	5	15	13	149	11.5	35			
NEW CUMBERLAND LOCK & DAM			2	19	54	1	5	25	8	14	27	2	12	25	66	2054	31.1	103			
NEW CUMBERLAND LK & DAM AUX			1	15	53	1	3	22	7	12	24	1	9	26	10	134	13.4	28			
PIKE ISLAND LOCK & DAM			1	14	55	2	8	28	5	12	42	2	10	27	88	2893	32.9	97			
PIKE ISLAND LOCK & DAM AUX 1			3	11	47	1	4	21	5	12	19	3	9	25	7	119	17.0	25			
MONONGAHELA RIVER																					
LOCK & DAM 2			1	12	51	1	5	37	5	10	26	1	7	40	166	5355	32.3	175			
LOCK & DAM 2 AUX 1			2	9	39	1	2	6	5	6	17	1	2	14	13	199	15.3	25			
LOCK & DAM 3			1	10	54	1	6	28	6	10	22	1	6	21	391	12416	31.8	127			
LOCK & DAM 3 AUXILIARY 1			2	8	30	1	2	10	6	8	13	1	3	15	18	291	16.2	37			
LOCK & DAM 4			1	10	32	1	6	18	6	10	32	2	7	27	296	9115	30.8	137			

EROC H4	DISTRICT NAME PITTSBURGH			DIVISION NAME OHIO RIVER									MONTHS REPORTED							
													1/83			2/83			3/83	
APPROACH			LOCK PROCESSING TIME (MIN.)									:	DELAYED VESSELS	DELAY TIME	DELAY AVG	DELAY MAX				
			ENTRY			CHAMBER			EXIT											
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(IN MINUTES)				
NONONGAMELA RIVER																				
LOCK & DAM 4 AUXILIARY 1	1	11	39	:	1	2	9	:	8	9	19	:	1	4	20	:	5	126	25.2	65
MAXWELL LOCK & DAM	1	9	25	:	2	6	18	:	7	10	29	:	2	8	21	:	32	389	12.2	41
MAXWELL LOCK & DAM AUX 1	1	12	25	:	2	7	23	:	9	11	35	:	3	10	34	:	32	483	15.1	45
LOCK & DAM 7	1	5	45	:	1	4	20	:	5	5	32	:	1	9	49	:	360	14773	41.0	176
LOCK & DAM 8	1	5	60	:	1	4	25	:	5	6	41	:	1	10	37	:	270	9995	37.0	129
MORGANTOWN LOCK & DAM	3	5	13	:	2	5	11	:	8	10	20	:	2	4	10	:	1	3	3.0	3
HILDEBRAND LOCK & DAM	2	4	10	:	1	3	12	:	9	12	25	:	2	4	15	:	1	17	17.0	17
OPEKISKA LOCK & DAM	2	4	15	:	1	2	5	:	10	10	17	:	2	3	10	:	0	0	0.0	0
ALLEGHENY RIVER																				
LOCK & DAM 2	1	6	30	:	1	4	17	:	5	8	19	:	2	8	25	:	31	843	27.2	96
LOCK & DAM 3	1	7	42	:	1	4	34	:	5	8	20	:	1	7	24	:	23	672	29.2	105
LOCK & DAM 4	1	7	24	:	2	4	18	:	5	7	21	:	2	7	25	:	8	184	23.0	62
LOCK & DAM 5	1	3	10	:	2	3	7	:	6	9	20	:	2	5	18	:	0	0	0.0	0
LOCK & DAM 6	1	4	6	:	1	4	5	:	8	8	10	:	2	5	10	:	2	26	13.0	18
LOCK & DAM 7	1	3	5	:	1	2	5	:	8	8	9	:	3	5	12	:	0	0	0.0	0
LOCK & DAM 8	NO DATA RECORDED FOR THIS LOCK																			
LOCK & DAM 9	NO DATA RECORDED FOR THIS LOCK																			

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED		
			1/83	2/83	3/83

APPROACH			LOCK PROCESSING TIME (MIN.)									: DELAYED DELAY		DELAY	DELAY
			ENTRY			CHAMBER			EXIT			: VESSELS TIME		AVG	MAX
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX			(IN MINUTES)	

OHIO RIVER

HANNIBAL LOCKS & DAM	1	16	46	3	10	24	7	16	37	1	11	26	:	111	3972	35.8	122
HANNIBAL LOCKS & DAM AUX 1	2	14	52	1	6	15	6	16	25	4	10	20	:	2	26	13.0	21

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K3	JACKSONVILLE	SOUTH ATLANTIC	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
OKEECHOBEE WATERWAY	01-ST LUCIE LOCK & DAM	0275/0050/14.0
	02-MOORE HAVEN LOCK	0275/0050/11.0
	03-ORTONA LOCK & DAM	0275/0050/12.0
	04-W P FRANKLIN LCK & CTRL STRCT	0450/0056/14.0
	05-PORT MAYACA LOCK	0450/0056/14.0
CROSS FLA BRG CNL	11-HENRY HOLLAND BUCKMAN LOCK	0600/0084/15.0
	12-EUREKA LOCK	0600/0084/15.0
	13-INGLIS LOCK	0600/0084/15.0
CANAVERAL HARBOR	21-CANAVERAL LOCK	0600/0090/15.0
OKLAHAMA RIVER	31-NOSS BLUFF LOCK & DAM	0156/0030/****

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LOCKAGE FILE FOR THIS PERIOD

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K5	MOBILE	SOUTH ATLANTIC	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
BLKMAR/TOMBIGBEE RI	01-COFFEEVILLE LOCK	0600/0110/12.0
	02-DEMOPOLIS LOCK & DAM	0600/0110/12.0
	03-WARRIOR LOCK & DAM	0600/0110/12.0
	04-WILLIAM BACON OLIVER LK & DM	0600/0095/12.0
	05-HOLT LOCK & DAM	0600/0110/12.0
	06-JOHN HOLLIS BANKHEAD LK & DM	0600/0110/12.0
ALABAMA-COOSA RIVERS	11-CLAIBORNE LOCK & DAM	0600/0084/12.0
	12-MILLERS FERRY LOCK & DAM	0600/0084/12.0
	13-JONES BLUFF LOCK & DAM	0600/0084/12.0
APLCH/CHTCH/FLNT RI	21-JIM WOODRUFF LOCK & DAM	0450/0082/12.0
	22-GEORGE W ANDREWS LOCK & DAM	0450/0082/12.0
	23-WALTER F GEORGE LOCK & DAM	0450/0082/12.0
TENN TOMBIGBEE WATERWAY	41-GAINESVILLE LOCK & DAM	0600/0110/12.0
	42-ALICEVILLE LOCK & DAM	0600/0110/12.0
	43-COLUMBUS LOCK & DAM	0600/0110/12.0
	44-ABERDEEN LOCK & DAM	0600/0110/12.0
PEARL RIVER	31-LOCK 1	0310/0065/ 9.0
	32-LOCK 2	0310/0065/ 9.0
	33-LOCK 3	0310/0065/ 9.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC K5	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED										
			1/83		2/83				3/83				
RIVER/LOCK NAME		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGE EMPTY	BARGE FULL	BARGE TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
BLKNAR/TOMBIGBEE RI													
COFFEEVILLE LOCK		***											
UPBOUND STATISTICS		489	2	37	528	1863	110	1973	503	0	6	509	203
DOWNBOUND STATISTICS		491	1	26	518	85	1872	1957	496	0	1	497	2855
TOTALS		980	3	63	1046	1948	1982	3930	999	0	7	1006	3058
DEMOPOLIS LOCK & DAM		***											
UPBOUND STATISTICS		403	1	36	440	1536	89	1625	429	0	2	431	174
DOWNBOUND STATISTICS		423	0	14	437	67	1564	1631	430	0	7	437	2394
TOTALS		826	1	50	877	1603	1653	3256	859	0	9	868	2568
WARRIOR LOCK & DAM		***											
UPBOUND STATISTICS		451	4	9	464	1867	89	1956	456	1	5	462	172
DOWNBOUND STATISTICS		447	7	15	469	70	1897	1967	453	4	2	459	2925
TOTALS		898	11	24	933	1937	1986	3923	909	5	7	921	3097
WILLIAM BACON OLIVER LK & DM		***											
UPBOUND STATISTICS		439	4	41	484	1842	83	1925	641	0	15	656	110
DOWNBOUND STATISTICS		437	3	36	476	92	1870	1962	653	1	14	668	2830
TOTALS		876	7	77	960	1934	1953	3887	1294	1	29	1324	2940
MOLT LOCK & DAM		***											
UPBOUND STATISTICS		411	1	30	442	1840	61	1901	430	0	7	437	86
DOWNBOUND STATISTICS		417	5	26	448	60	1869	1929	437	1	8	446	2812
TOTALS		828	6	56	890	1900	1930	3830	867	1	15	883	2898
JOHN HOLLIS BANKHEAD LK & DM		***											
UPBOUND STATISTICS		297	8	15	320	1243	54	1297	310	7	10	327	70
DOWNBOUND STATISTICS		304	9	15	328	68	1290	1358	313	5	10	328	1955
TOTALS		601	17	30	648	1311	1344	2655	623	12	20	655	2025
ALABAMA-COOSA RIVERS													
CLAIBORNE LOCK & DAM		***											
UPBOUND STATISTICS		30	16	2	48	75	12	87	30	16	6	52	18
DOWNBOUND STATISTICS		30	17	0	47	9	71	80	29	18	5	52	90
TOTALS		60	33	2	95	84	83	167	59	34	11	104	108

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC KS	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED										TONNAGE (KTONS)
			1/83			2/83			3/83				
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS ENPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)		
ALABAMA-COOSA RIVERS													
MILLERS FERRY LOCK & DAM	***												
UPBOUND STATISTICS	31	15	3	49	77	11	88	37	15	11	63	13	
DOWNBOUND STATISTICS	28	14	1	43	9	71	80	33	14	8	55	92	
TOTALS	59	29	4	92	86	82	168	70	29	19	118	105	
JONES BLUFF LOCK & DAM	***												
UPBOUND STATISTICS	9	7	1	17	22	8	30	14	7	1	22	9	
DOWNBOUND STATISTICS	9	5	0	14	8	17	25	14	5	1	20	30	
TOTALS	18	12	1	31	30	25	55	28	12	2	42	39	
APLCH/CHTCH/FLNT RI													
JIM WOODRUFF LOCK & DAM	***												
UPBOUND STATISTICS	69	10	1	80	168	34	202	71	5	13	89	75	
DOWNBOUND STATISTICS	69	29	2	100	35	166	201	71	16	12	99	88	
TOTALS	138	39	3	180	203	200	403	142	21	25	188	163	
GEORGE W ANDREWS LOCK & DAM	***												
UPBOUND STATISTICS	18	21	0	39	3	17	20	20	19	3	42	35	
DOWNBOUND STATISTICS	17	26	1	44	14	4	18	18	26	3	47	5	
TOTALS	35	47	1	83	17	21	38	38	45	6	89	40	
WALTER F GEORGE LOCK & DAM	***												
UPBOUND STATISTICS	6	4	0	10	0	7	7	7	3	3	13	17	
DOWNBOUND STATISTICS	6	9	0	15	7	0	7	8	7	3	18	0	
TOTALS	12	13	0	25	7	7	14	15	10	6	31	17	
TENN TOMBIGBEE WATERWAY													
GAINESVILLE LOCK & DAM	***												
UPBOUND STATISTICS	10	7	3	20	12	6	18	15	5	2	22	9	
DOWNBOUND STATISTICS	11	5	2	18	1	22	23	14	5	1	20	34	
TOTALS	21	12	5	38	13	28	41	29	10	3	42	43	

TENN TOMBIGBEE WATERWAY

COLUMBUS LOCK & DAM	***											
UPBOUND STATISTICS	3	25	11	39	1	3	4	13	23	7	43	1
DOWNBOUND STATISTICS	8	26	3	37	0	8	8	13	23	7	43	9
TOTALS	11	51	14	76	1	11	12	26	46	14	86	10

ABERDEEN LOCK & DAM NO DATA RECORDED FOR THIS LOCK

PEARL RIVER

LOCK 1 NO DATA RECORDED FOR THIS LOCK

LOCK 2 NO DATA RECORDED FOR THIS LOCK

LOCK 3 NO DATA RECORDED FOR THIS LOCK

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC KS	DISTRICT NAME MOBILE			DIVISION NAME SOUTH ATLANTIC										MONTHS REPORTED				3/83	
														1/83		2/83			

LOCK PROCESSING TIME (MIN.)																			
APPROACH			ENTRY			CHAMBER			EXIT			:	DELAYED	DELAY	DELAY	DELAY			
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	VESSELS	TIME		
															:	(IN MINUTES)			

BLKNAR/TOMBIGBEE RI																			
COFFEEVILLE LOCK	1	9	46	1	4	31	5	10	27	1	8	55	:	310	33950	109.5	3216		
DENOPOLIS LOCK & DAM	1	12	46	1	4	16	5	11	22	2	10	25	:	283	7552	26.7	299		
WARRIOR LOCK & DAM	1	11	40	1	4	19	5	13	36	1	8	34	:	288	9360	32.5	136		
WILLIAM BACON OLIVER LK & DM	1	13	67	1	6	35	5	14	44	1	14	150	:	549	83863	152.8	2438		
HOLT LOCK & DAM	1	10	40	1	10	35	5	14	48	1	8	48	:	312	13113	42.0	427		
JOHN HOLLIS BANKHEAD LK & DM	1	11	46	1	6	27	5	14	47	1	7	26	:	166	7136	43.0	267		
ALABAMA-COOSA RIVERS																			
CLAIBORNE LOCK & DAM	1	5	25	1	3	15	1	10	18	1	4	14	:	1	1	1.0	1		
MILLERS FERRY LOCK & DAM	2	8	25	1	4	12	8	15	25	2	5	15	:	5	28	5.6	8		
JONES BLUFF LOCK & DAM	1	5	35	1	3	5	5	17	55	1	6	33	:	0	0	0.0	0		
APLCH/CHTCH/FLNT RI																			
JIM WOODRUFF LOCK & DAM	1	5	40	2	4	40	8	10	25	1	5	28	:	3	44	14.7	27		
GEORGE W ANDREWS LOCK & DAM	1	2	14	2	2	20	5	14	22	2	2	3	:	0	0	0.0	0		
WALTER F GEORGE LOCK & DAM	1	4	15	1	6	40	13	15	26	1	4	17	:	0	0	0.0	0		
TENN TOMBIGBEE WATERWAY																			
GAINESVILLE LOCK & DAM	1	9	65	1	5	23	5	11	21	2	7	36	:	2	31	15.5	16		
ALICEVILLE LOCK & DAM	1	1	27	1	1	24	5	12	29	1	1	23	:	12	135	11.3	24		
COLUMBUS LOCK & DAM	1	5	38	1	1	13	5	13	23	1	1	7	:	0	0	0.0	0		

[illegible]

LOCK 3 NO DATA RECORDED FOR THIS LOCK

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K6	SAVANNAH	SOUTH ATLANTIC	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
SAVANNAH RIVER	01-NEW SAVANNAH BLUFF LOCK & DAM	0360/0056/12.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K6	SAVANNAH	SOUTH ATLANTIC	1/83	2/83	3/83

RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)

(NAV, OPN, ETC)

SAVANNAH RIVER

NEW SAVANNAH BLUFF LOCK & DAM	***	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS	0	2	0	2	0	0	0	0	2	0	2	0
DOWNBOUND STATISTICS	0	2	0	2	0	0	0	0	2	0	2	0
TOTALS	0	4	0	4	0	0	0	0	4	0	4	0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K6	SAVANNAH	SOUTH ATLANTIC	1/83	2/83	3/83

LOCK PROCESSING TIME (MIN.)												:	DELAYED DELAY	DELAY	DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS TIME	AVG	MAX	
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(IN MINUTES)

SAVANNAH RIVER

NEW SAVANNAH BLUFF LOCK & DA	5	5	5	3	3	5	9	9	10	5	8	12	:	0	0	0.0	0
------------------------------	---	---	---	---	---	---	---	---	----	---	---	----	---	---	---	-----	---

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
			1/83	2/83	3/83
K7	WILMINGTON	SOUTH ATLANTIC			

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
CAPE FEAR RIVER	01-LOCK & DAM 1	0200/0040/10.0
	02-LOCK & DAM 2	0200/0040/10.0
	03-WILLIAM D HUSKE LOCK & DAM	0300/0040/10.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED									
K7	WILMINGTON	SOUTH ATLANTIC	1/83		2/83		3/83					
RIVER/LOCK NAME	TOWS	VESSL RECRN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
CAPE FEAR RIVER												
LOCK & DAM 1	***											
UPBOUND STATISTICS	13	0	0	13	1	12	13	25	0	3	28	11
DOWNBOUND STATISTICS	11	3	0	14	11	0	11	20	1	5	26	0
TOTALS	24	3	0	27	12	12	24	45	1	8	54	11
LOCK & DAM 2	***	ONLY FIRST AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS	9	0	0	9	0	9	9	16	0	5	21	15
DOWNBOUND STATISTICS	8	0	0	8	8	0	8	14	0	5	19	0
TOTALS	17	0	0	17	8	9	17	30	0	10	40	15
WILLIAM O HUSKE LOCK & DAM	***											
UPBOUND STATISTICS	9	0	0	9	0	9	9	9	0	2	11	9
DOWNBOUND STATISTICS	9	0	0	9	8	1	9	9	0	3	12	1
TOTALS	18	0	0	18	8	10	18	18	0	5	23	10

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

ERDC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K7	WILMINGTON	SOUTH ATLANTIC	1/83	2/83	3/83

LOCK PROCESSING TIME (MIN.)												:	DELAYED	DELAY	DELAY	DELAY
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS	TIME	AVG	MAX
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(IN MINUTES)

CAPE FEAR RIVER

LOCK & DAM 1	2	2	5	5	5	5	10	15	30	5	5	5	:	30	84	2.8	5
LOCK & DAM 2	5	5	15	5	5	15	5	12	30	5	5	10	:	23	115	5.0	5
WILLIAM O MUSKE LOCK & DAM	2	2	5	5	5	5	5	28	30	5	6	30	:	22	60	2.7	3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
L2	SACRAMENTO	SOUTH PACIFIC	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
SCRIMTO DWSHP CANAL	01-BARGE CANAL LOCK	0640/0086/23.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LOCKAGE FILE FOR THIS PERIOD

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
N3	GALVESTON	SOUTHWESTERN	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
GULF INTRACOASTAL	11-COLORADO RIVER EAST LOCK	1200/0075/15.0
	12-COLORADO RIVER WEST LOCK	1200/0075/15.0
	13-BRAZOS EAST GATE	9999/0075/15.0
	14-BRAZOS WEST GATE	9999/0075/15.0

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
N4	LITTLE ROCK	SOUTHWESTERN	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ARKANSAS RIVER	01-NORRELL LOCK & DAM	0600/0110/12.0
	02-LOCK & DAM 2	0600/0110/12.0
	03-LOCK & DAM 3	0600/0110/12.0
	04-LOCK & DAM 4	0600/0110/12.0
	05-LOCK & DAM 5	0600/0110/12.0
	06-DAVID D TERRY LOCK & DAM	0600/0110/12.0
	07-MURRAY LOCK & DAM	0600/0110/12.0
	08-TOAD SUCK FERRY LOCK & DAM	0600/0110/12.0
	09-LOCK & DAM 9	0600/0110/12.0
	10-BARDANELLE LOCK & DAM	0600/0110/12.0
	11-OZARK LOCK & DAM	0600/0110/12.0
	13-LOCK & DAM 13	0600/0110/12.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

ERDC M4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED									
							1/83	2/83	3/83			
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
ARKANSAS RIVER												
NORRELL LOCK & DAM	***											
UPBOUND STATISTICS	179	4	34	217	607	340	947	173	4	41	218	425
DOWNBOUND STATISTICS	184	7	27	218	133	866	999	173	5	38	216	1103
TOTALS	363	11	61	435	740	1206	1946	346	9	79	434	1528
LOCK & DAM 2	***											
UPBOUND STATISTICS	178	3	33	214	611	331	942	205	3	9	217	425
DOWNBOUND STATISTICS	183	7	27	217	130	862	992	198	6	12	216	1109
TOTALS	361	10	60	431	741	1193	1934	403	9	21	433	1534
LOCK & DAM 3	***											
UPBOUND STATISTICS	154	2	22	178	522	344	866	167	1	43	211	439
DOWNBOUND STATISTICS	163	3	12	178	130	787	917	169	2	42	213	1000
TOTALS	317	5	34	356	652	1131	1783	336	3	85	424	1439
LOCK & DAM 4	***											
UPBOUND STATISTICS	158	5	28	191	492	358	850	175	3	16	194	446
DOWNBOUND STATISTICS	160	5	17	182	126	753	879	167	4	15	186	940
TOTALS	318	10	45	373	618	1111	1729	342	7	31	380	1386
LOCK & DAM 5	***											
UPBOUND STATISTICS	132	48	12	192	342	317	659	140	43	6	189	386
DOWNBOUND STATISTICS	133	51	13	197	104	592	696	146	46	6	198	849
TOTALS	265	99	25	389	446	909	1355	286	89	12	387	1235
DAVID O TERRY LOCK & DAM	***											
UPBOUND STATISTICS	138	61	17	216	362	316	678	144	54	3	201	389
DOWNBOUND STATISTICS	133	54	17	204	110	588	698	145	50	5	200	842
TOTALS	271	115	34	420	472	904	1376	289	104	8	401	1231
MURRAY LOCK & DAM	***											
UPBOUND STATISTICS	113	45	5	163	325	226	551	116	37	3	156	266
DOWNBOUND STATISTICS	106	51	7	164	68	507	575	110	40	3	153	762
TOTALS	219	96	12	327	393	733	1126	226	77	6	309	1028

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC #4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED									
			1/83		2/83		3/83					

RIVER/LOCK NAME	TOWS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGES	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL	
(NAV, OPN, ETC)												

ARKANSAS RIVER												
TOAD SUCK FERRY LOCK & DAM	***											
UPBOUND STATISTICS	115	7	2	124	318	237	555	117	6	24	147	274
DOWNBOUND STATISTICS	105	9	4	118	68	507	575	107	9	22	138	763
TOTALS	220	16	6	242	386	744	1130	224	15	46	285	1037
LOCK & DAM 9	***											
UPBOUND STATISTICS	108	26	1	135	327	212	539	109	26	8	143	259
DOWNBOUND STATISTICS	104	29	6	139	62	507	569	107	29	10	146	780
TOTALS	212	55	7	274	389	719	1108	216	55	18	289	1039
DARDANELLE LOCK & DAM	***											
UPBOUND STATISTICS	144	5	8	157	367	218	585	152	4	7	163	260
DOWNBOUND STATISTICS	139	7	10	156	63	537	600	150	6	7	163	804
TOTALS	283	12	18	313	430	755	1185	302	10	14	326	1064
OZARK LOCK & DAM	***											
UPBOUND STATISTICS	105	0	3	108	357	173	530	107	0	6	113	202
DOWNBOUND STATISTICS	102	3	5	110	49	496	545	105	2	6	113	755
TOTALS	207	3	8	218	406	669	1075	212	2	12	226	957
LOCK & DAM 13	***	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	94	2	3	99	260	179	439	94	2	6	102	227
DOWNBOUND STATISTICS	88	2	6	96	67	340	407	87	3	7	97	752
TOTALS	182	4	9	195	327	519	846	181	5	13	199	979

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC #4	DISTRICT NAME LITTLE ROCK			DIVISION NAME SOUTHWESTERN									MONTHS REPORTED											
													1/83			2/83			3/83					
APPROACH			LOCK PROCESSING TIME (MIN.)									DELAYED	DELAY	DELAY	DELAY									
			ENTRY			CHAMBER			EXIT			VESSELS	TIME	AVG	MAX									
MIN AVG MAX			MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	(IN MINUTES)									
ARKANSAS RIVER																								
NORRELL LOCK & DAM	2	8	65	1	8	65	1	7	23	1	8	35	:	47	1026	21.8	145							
LOCK & DAM 2	1	11	40	1	9	37	5	11	25	1	12	440	:	54	2436	45.1	465							
LOCK & DAM 3	2	9	36	1	7	34	5	13	330	1	10	120	:	30	883	29.4	95							
LOCK & DAM 4	1	12	50	1	9	79	5	12	430	2	11	55	:	44	1533	34.8	98							
LOCK & DAM 5	1	9	48	1	8	114	6	10	23	1	11	60	:	142	2194	15.5	82							
DAVID D TERRY LOCK & DAM	1	11	45	1	8	50	7	10	20	1	11	55	:	63	1875	29.8	116							
MURRAY LOCK & DAM	1	8	29	1	8	35	8	10	75	1	10	60	:	88	1141	13.0	66							
TOAD SUCK FERRY LOCK & DAM	1	9	41	1	9	50	5	10	72	1	10	37	:	117	1223	10.5	55							
LOCK & DAM 9	1	13	55	1	9	31	6	13	43	1	9	62	:	135	1167	8.6	58							
DARDANELLE LOCK & DAM	1	14	89	1	8	80	5	13	40	1	8	60	:	230	41884	182.1	40321							
OZARK LOCK & DAM	2	12	35	2	11	40	10	13	43	2	12	45	:	196	2245	11.5	55							
LOCK & DAM 13	1	11	50	2	9	29	7	12	27	2	12	74	:	25	685	27.4	145							

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/83 THROUGH 3/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
NS	TULSA	SOUTHWESTERN	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ARKANSAS RIVER	21-W D MAYO LOCK & DAM	0600/0110/14.0
	22-ROBERT S KERR LOCK & DAM & RES	0600/0110/14.0
	23-WEBBERS FALLS LOCK & DAM	0600/0110/14.0
	24-CHOUTEAU LOCK & DAM	0670/0110/14.0
	25-NEWT GRAHAM LOCK & DAM	0670/0110/14.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC NS	DISTRICT NAME TULSA	DIVISION NAME SOUTHWESTERN		MONTHS REPORTED					3/83			
				1/83	2/83							
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
ARKANSAS RIVER												
W D MAYO LOCK & DAM	***											
UPBOUND STATISTICS	105	15	2	122	379	143	522	121				
DOWNBOUND STATISTICS	102	16	*****	124	46	485	531	117				
TOTALS	207	31	8	246	425	628	1053	238				
ROBERT S KERR LOCK & DAM & RES	***											
UPBOUND STATISTICS	106	16	5	127	384	143	527	132				
DOWNBOUND STATISTICS	103	16	*****	126	45	491	536	123				
TOTALS	209	32	12	253	429	634	1063	255				
WEBBERS FALLS LOCK & DAM	***											
UPBOUND STATISTICS	105	2	4	111	338	148	486	131				
DOWNBOUND STATISTICS	102	3	*****	110	51	426	477	123				
TOTALS	207	5	9	221	389	574	963	254				
CHOUTEAU LOCK & DAM	***											
UPBOUND STATISTICS	102	4	6	112	306	123	429	113				
DOWNBOUND STATISTICS	100	2	*****	108	39	390	429	108				
TOTALS	202	6	12	220	345	513	858	221				
NEWT GRAHAM LOCK & DAM	***											
UPBOUND STATISTICS	102	6	15	123	297	121	418	115				
DOWNBOUND STATISTICS	99	7	*****	111	38	373	411	111				
TOTALS	201	13	20	234	335	494	829	226				

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 1/83 THROUGH 3/83
 INSTITUTE FOR WATER RESOURCES

EROC #5	DISTRICT NAME TULSA	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED																																		
			1/83	2/83	3/83																																
<table border="1"> <thead> <tr> <th colspan="4">LOCK PROCESSING TIME (MIN.)</th> <th colspan="2">: DELAYED DELAY</th> <th>DELAY</th> <th>DELAY</th> </tr> <tr> <th colspan="2">APPROACH</th> <th>ENTRY</th> <th>CHAMBER</th> <th>EXIT</th> <th>: VESSELS TIME</th> <th>AVG</th> <th>MAX</th> </tr> <tr> <th>MIN</th> <th>AVG</th> <th>MAX</th> <th>MIN</th> <th>AVG</th> <th>MAX</th> <th>MIN</th> <th>AVG</th> </tr> </thead> <tbody> <tr> <td colspan="8"> MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : (IN MINUTES) </td> </tr> </tbody> </table>						LOCK PROCESSING TIME (MIN.)				: DELAYED DELAY		DELAY	DELAY	APPROACH		ENTRY	CHAMBER	EXIT	: VESSELS TIME	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : (IN MINUTES)							
LOCK PROCESSING TIME (MIN.)				: DELAYED DELAY		DELAY	DELAY																														
APPROACH		ENTRY	CHAMBER	EXIT	: VESSELS TIME	AVG	MAX																														
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG																														
MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : (IN MINUTES)																																					

ARKANSAS RIVER

W D MAYO LOCK & DAM NO DATA RECORDED FOR THIS LOCK

ROBERT S KERR LOCK & DAM & RES NO DATA RECORDED FOR THIS LOCK

WEBBERS FALLS LOCK & DAM NO DATA RECORDED FOR THIS LOCK

CHOUTEAU LOCK & DAM NO DATA RECORDED FOR THIS LOCK

NEWT GRAHAM LOCK & DAM NO DATA RECORDED FOR THIS LOCK

END